Vol. 93, Sect. 6, 1956

### VERMES

COMPILED BY

STEPHEN PRUDHOE

LONDON

PUBLISHED BY

THE ZOOLOGICAL SOCIETY OF LONDON

PRICE TEN SHILLINGS

DECEMBER, 1958

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## 6. VERMES

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#### STEPHEN PRUDHOE

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#### I. TITLES

The year of publication is omitted where it is the same as the volume year of the "Record," namely (1956).

**Anon.** Adolpho Lutz (1855–1940). Mem. Inst. O. Cruz **54**: 447–489.

**Abdou,** A. H. (1). The use of di-n-butyl tin dilaurate for treatment of chickens experimentally infected with *Davainea proglottina*. J. Helminth. 30: 121-128 2 tables.

**Abdou,** A. H. (2). Observations on the life cycle of *Davainea proglottina* in Britain. J. Helminth. **30**: 189–202 l pl.

**Abeloos**, N. (1). Morphogenèse de l'opercule du serpulide *Hydroides norvegica* (Gunn.). C.R. Soc. Biol. Paris **148** 15–18 1954: 1440–1441.

**Abeloos,** N. (2). Multiplication asexuée et stolonisation épigame chez les annélides. C.R. Ass. franç. Av. Sci. 73 1955: 455–456.

Adams, J. R. see Margolis, L.

Akhtar, S. A. (1). A new oxyurid (Nematoda) parasitic in the Baluch Pika. Proc. Pakistan sci. Conf. 8th. Biol. 1956: 52. [Abstract]

Akhtar, S. A. (2). A new oxyurid (Nematoda) parasitic in the Baluch Pika. Pakist. J. sci. Res. 8: 95–96 3 figs.

Akhtar, S. A. (3). On the nematodes (family: Oxyuridae Cobb., subfamily: Labiostominae n. subf.) parasitic in the pika of Alaska—Part I. Pakist. J. sci. Res. 8: 133–142 2 pls.

Alicata, J. E. Observations on the possibility of developing a strain of *Trichinella spiralis* resistant to radiation. J. Parasit. 42: 656–657.

Alicata, J. E. and Bonnet, D. D. A study of watercress in Hawaii as a possible source of human infection with liver fluke (*Fasciola*). Proc. helminth. Soc. Wash. **23**: 106–108 I table.

Allain, D. see Sadun, E. H.

Allen, R. W., Becklund, W. W. and Gilmore, R. E. Parasites of the barbary sheep. J. Parasit. 42 4 Sect. 2: 19 [Abstract].

Allgén, C. A. (1). Vergleich zwischen den marinen Nematodenfauna Norwegens und denen des antarktisch-subantarktischen Gebietes. K. norske vidensk. Selsk. Forh. 28: 71-76.

Allgén, C. A. (2). Vergleich zwischen den marinen Nematodenfauna Norwegens und denen der Atlantikküste Europas. K. norske vidensk. Selsk. Forh. 28: 77–83.

Allgén, C. A. (3). Vergleich zwischen den marinen Nematodenfaunen Norwegens und denen des Mittelmeers sowie angrenzender nordöstlicher Meeresabschnitte (Marmara- und Schwarzes Meer, Azoswches Meer und Kinburgsee) I–II K. norske vidensk. Selsk. Forh. 28: 84–95.

Allin, A. E. Parasites of moose and man. News Letter Thunder Bay Fd. Nat. Cl. 10: 5–6.

Altmann, S. A. see Wykoff, D. E.

Alvarado, R. (1). Segmentación y anillación. Bol. Soc. esp. Hist. nat. Biol. 53: 71-74.

**Alvarado,** R. (2). Algo nias sobre segmentación y anillación. Bol. Soc. esp. Hist. nat. Secc. Biol. 54: 27–31.

Alvarado, S. Estudios histológicos y fisiólogicos sobre los anélidos. VI. Organogenia de los quetopoxios uncinigeros y sus diferenciaciones quetosas en los sabélidos. Bol. Soc. esp. Hist. nat. Secc. Biol. 54: 11–26 6 pls.

Andersen, S. Collection of cysts of *Heterodera major* and estimation of the cyst content. Nematologica 1:303–306 l pl.

Anderson, J. C. Relations between metabolism and morphogenesis during regeneration in *Tubifex tubifex* II. Biol. Bull. Woods Hole III: 179–189 2 figs.

Anderson, R. C. (1). Elaphostrongylus odocoilei Hobmaier and Hobmaier, 1934 in the cranial case of Odocoileus virginianus borealis Miller. Canad. J. Zool. 34: 167-173 12 figs.

Anderson, R. C. (2). Two new filarioid nematodes from Ontario birds. Canad. J. Zool. 34: 213–218 13 figs.

Anderson, R. C. (3). The life cycle and seasonal transmission of Ornithofilaria fallisensis Anderson, a

parasite of domestic and wild ducks. Canad. J. Zool. 34: 485-525 figs 1-20.

Ansari, M. A. R. and Nasir, A. S. Intestinal Protozoa and helminths detected by rapid method amongst Borstal Jail prisoners. Proc. Pakistan sci. Conf. 8th., Biol. 1956, 49.

**Arnold,** R. Parasites of domestic animals in Jamaica with incompletely known life histories. Nat. Hist. Notes 7 73 1955: 17–20.

Arvy, L. and Gaillard, J.-M. Castration parasitaire de *Pandora albida* (Roding), (*P. inaequivalvis* L.) mollusque pélécypode eulamellibranche à grande queue vésiculeuse. C.R. Acad. Sci. Paris **243**: 1074–1077 3 figs.

Atchley, F. O., Hemphill, E. C. and Hunt, D. W. Current status of intestinal parasitism of man in eastern Kentucky. J. Parasit. 42: 505-509 3 tables.

Ayad, N. Bilharsiasis survey in British Somaliland, Eritrea, Ethiopia, Somalia, the Sudan and Yemen. Bull. World Hlth. Org. 14: 1–117 10 figs.

Azim, M. A. and Gismann, A. Bilharsiasis survey in South Western Asia, covering Irak, Israel, Jordan, Lebanon, Sa'udi Arabia and Syria in 1950–51. Bull. World Hlth. Org. 14: 403–456 7 figs.

Babero, B. B. see Rausch, R.

Babero, B. B. see Thomas, L. J.

Bacci, G. (1). Controllo genetico della inversione sessuale in individui isolati di *Ophryotrocha*. Caryologia 6 Suppl. Atti IX Congr. Internat. Genet. pt. 2 1954: 944–948.

Bacci, G. (2). Variabilità sessuale di poplazioni, razze e specie ermafrodite. Ric. sci. 25 Suppl. 1955: 149–152. [French, English and German summaries].

Bacci, G. (3). Indicazioni di un effetto materno nella determinazione sessuale di Dinophilus gyrociliatus (= D. apatris). Ric. sci. 26 Suppl.: 71-76 1 fig. [French, English and German summaries.]

**Băcesco**, M. Quelques observations sur la faune benthonique du défité roumain du Danube: la description d'une es èce nouvelle de Mermithide, Pseudomermis cazanica n. sp. Ann. Sci. Univ. Jassy (2) **31** 1948 : 240–253 2 pls.

**Băcesco**, M. and E. Kinorhynchaune classe d'animaux nouvelle pour la faune Roumaine. Comun. Acad. Republ. rom. **6**: 543–549 6 figs. [French résumé].

Băcesco, M. see Motaș, C.

**Bachofer,** C. S. Effects of irradiation of *Ascaris* eggs. Proc. Indiana Acad. Sci. **65**: 225.

**Baer,** J. G. (1). Cestodes d'un Dauphin de l'Océan Pacifique. Bull. Soc. neuchâtel. Sci. nat. (3) **78** 1955 : 31–36 4 figs.

Baer, J. G. (2). The taxonomic position of *Taenia madagascariensis* Davaine, 1870, a tapeworm parasite of man and rodents. Ann. trop. med. Parasit. 50: 152–156, 4 figs.

**Baer,** J. G. and **Fain,** A. Les cestodes des Pangolins. Bull. Soc. neuchâtel. Sci. nat. (3) **78** 1955: 37–52 15 figs.

Baer, J. G. and Sandars, D. F. The first record of Raillietina (Raillietina) celebensis (Janicki, 1902), (Cestoda) in man from Australia, with a critical survey of previous cases. J. Helminth. 30: 173–182 1 fig., 1 table.

**Báez,** M. M. and **Mazzotti,** L. Metodos sencillos para obtener fotografias de preparaciones de helmintos. Rev. Inst. Salubr. Enferm. trop., Mésc. **16**: 25–26 4 figs.

Baines, R. C. see Cameron, J. W.

**Baltzer,** R. Die Regenwürmer Westfalens. Eine tiergeographische, ökologische und sinnesphysiologische Untersuchung. Zool. Jb. (Syst.) **84** 355–414 13 figs.

Banchetti, A. Ricerche sugli antielmintice. Mem. Soc. tosc. Sci. nat. **60B**: 1953: 20–30.

Banse, K. (1). Über den Transport von meroplanktischen Larven aus dem Kattegat in die Kieler Bucht. Ber. dtsch. Komm. Meeresforsch. 14: 147–164, 5 figs.

Banse, K. (2). Über die Entwicklung von Castalia punctata (O. F. Müller) (Hesionidae, Polychaeta). Veröff. Inst. Meeresf. Bremerhaven 4: 17–24 8 figs.

Banse, K. (3). Beiträge zur Kenntnis der Gattungen Fabricia, Manayunkia und Fabriciola (Sabellidae, Polychaeta). Zool. Jb. (Syst.) 84: 415–438 8 figs.

Barbosa, F. S. see Olivier, L. Bargai, U. see Kagan, I. G.

**Bartel,** A. H. and **Davenport,** D. A technique for the investigation of chemical responses in aquatic animals. Brit. J. Anim. Behav. **4**: 117–119 1 fig.

Bártik, M., Pecha, J. and Bezděková, J. Echinostomum coalitum (Trematoda) in Bisamratten in Südmähren. Čsk. Parasit. 3: 9-11 1 fig. [German summary].

Bártik, M. see Lucký, Z.

Bartoš, E. (1). Microscopical fauna of Slovakian mosses. Biol. Sb. Slov. Akad. 4 1949: 77—92. [English summary].

Bartoš, E. (2). Vířníci rodu Lepadella a kéičk jejich určování. Čas. nár. Mus. 124 1955 : 22–39 7 figs.

Bartoš, E. (3). Vířníci rodu Lepadella a kéičh jejich určování. Čas. nár. Mus. 124 1955: 183–201 7 figs.

Baruš, V. and Tenora, F. Beitrag zur Kenntnis der Helminthofauna der Schlafmausartigen (Bilche-Myoxidae in der ČSR). Biológia, Bratislava II: 651–661 6 figs.

Baruš, V. see Tenora, F.

**Bauer,** O. N. Parasites of Coregonus albula in different aquatories of the USSR. Trav. Soc. Nat. Pétersb. (Léningr.) **69** 4 1947 : 7–21. [English summary].

Baumann, H. see Schwetz, J.

**Bawdon,** F. C. Tom Goodey 1885–1953. Obit. Nat. roy. Soc. 9 1954: 141–152 portr.

Bazańska, K. Tapeworms of birds (exclusive Anatidae) at Gołdapiwo Lake. Wiad. parazyt. Warszawa 2 5 suppl.: 209–210.

Beamer, P. D. see Levine, N. D.

**Bearup**, A. J. Life cycle of Austrobilharzia terrigalensis Johnston, 1917. Parasitology **46**: 470–479 figs 1–9.

**Beauchamp.** P. de Trois planaires terrestres du Congo belge. Rev. zool. Bot. Afr. **53**: 118–130 5 figs.

**Beaver,** P. C. Larva migrans. Exp. Parasit. 5: 587–621.

Becklund, W. W. see Allen, R. W. Behrenz, W. Vergleichende physiologische Untersuchungen über die Exkretion parasitischer Nematoden mit Hilfe der Fluoreszenz-mikroskopie. Z. wiss. Zool. 159: 129–164.

**Bell,** E. J. and **Hopkins,** C. A. The development of *Diplostomum phoxini* (Strigeida, Trematoda). Ann. trop. Med. Parasit. **50**: 275–282.

Bellomy, N. D. Fisherman's delight. Nat. Hist. N.Y. 65: 296-299 6 figs.

Bellu, C. see Sorescu, A.

Belopolskaya, M. M. Abhängigkeit der Helminthofauna der Watvögel vom Zug. Loodus, Seltsi. Aust. 49: 95–104. [German summary pls. 11–12].

**Benazzi,** M. (1). La poliploidia nei Tridadi. Caryologia 6 Suppl. Atti IX Congr. Internat. Genet. pt. 2 1954: 684–688.

Benazzi, M. (2). L'evoluzione cromosomica nella planaria *Dugesia lugubris*. Ric. sci. **25** Suppl. 1955: 75–79. [French, English and German summaries].

**Benazzi,** M. (3). Appunti sulla distribuzione dei Tricladi in Italia. Boll. Zool. **22** fasc. 2 1955: 149–164.

Benetti, M. P. see Biocca, E.

Bennett, H. S. see Robertis, E. D. P. de.

Bent, C. F. see Schwabe, C. W.

Berg, K. and Petersen, I. C. Studies on the humic, acid Lake Gribsø. Folia limnol. scand. No. 8: 1–273 21 pls., 105 figs.

**Berkeley** C. Epidiopatra hupferiana Augener from the North-East Pacific. Nature, Lond. **178**: 748.

Berkeley, E. and Berkeley, C. (1). On a collection of polychaetous annelids from northern Banks Island, from the south Beaufort Sea, and from northwest Alaska; together with some new records from the east coast of Canada. J. Fish. Res. Bd. Can. 13: 233–246.

Berkeley, E. and C. (2). A new species and two new records of Polychaeta from eastern Canada. Canad. J. Zool. 34: 267–271 3 figs.

**Berkeley,** E. and C. (3). Notes on Polychaeta from the east coast of Vancouver Island and from adjacent waters, with a description of a new species of *Aricidea*. J. Fish. Res. Bd. Can. 13: 541–546 1–6 figs.

Berrios, L. A. see Riggin, G. T.

Berry, J. E. The anatomy of *Plagitura parva*. Proc. Indiana Acad. Sci. **65**: 225–226.

Berry, J. E. and Mizelle, J. D. Composition of the haptoral armament and copulatory complex of *Urocleidus ferox* Mueller, 1934. J. Parasit. 42 4 Sect. 2: 30. [Abstract.]

Bertolino, P. see Bronzini, E.

**Bertram,** D. S. Further comparisons of the effects of prolonged continous exposure and intermittent exposure of cotton-rats to their filarioid parasite. Trans. roy. Soc. trop. Med. Hyg. **50**: 4.

**Bérziņš,** B. (1). Taxonomie und Verbreitung von *Keratella valga* und verwandten Formen. Ark. Zool. (2) **8**: 549–559, 11 figs.

**Bérziņš**, B. (2). Liste de rotiferes provenant du Lac de Kourna, île de Crête (Greece). Fragm. balcanica 1 1956: 207–208.

Bezděková, J. see Bártík, M.

Bezubik, B. (1). Research on Polymorphus minutus (Goeze, 1782) and Polymorphus magnus (Skrjabin, 1913). Wiad. parazyt. Warszawa 2 5 Suppl.: 265. [English summary].

**Bezubik,** B. (2). The helminth fauna of wild duck (subfam. Anatinae) of the Lublin and Białystok districts. Wiad. parazyt. Warszawa 2 5 Suppl.: 267–268. [English summary].

**Bezubik,** B. (3). The helminth fauna of wild ducks (subfam. Anatinae). Acta. Parasit. polon. 4 9–19: 407–510 28 figs. [English summary].

Bhadhuri, N. V. see Chowdhury, A. B.

**Bharucha-Reid,** R. P. Latent learning in earthworms. Science **123**: 222.

Bhatia, M. L. (1). Haemadipsa zeylanica agilis (Moore), a land leech from Nainital and Almora. Proc. Indian sci. Congr. Ass. 42 hd. 1955: 286. [Abstract].

Bhatia, M. L. (2). Extra ocular photoreceptors in the land leech, *Haemadipsa zeylanica agilis* (Moore) from Nainital, Almora (India). Nature, Lond. 178: 420–421.

Biguet, J., Peblock, S. and Capron, A. Description d'une meta-cercaire progenetique du genre Asymphylodora Loos[s], 1899, decouverte chez Bythinia leachi Sheppard dans le Nord de la France. Ann. Parasit. hum. comp. 31: 525–542 8 figs.

**Bijloo**, J. D. and **Boogaers**, P. A. M. Population decrease of *Heterodera rostochiensis* after DD treatment of the soil. Nematologica I: 20–29 pls. iv–vi. [Discussion pp. 29–30].

**Bingefors,** S. Inheritance of resistance to stem nematodes in red clover. Nematologica 1: 102–108 fig.

**Biocca,** E. and **Benetti,** M. P. Opisthorchis starkovi n. sp. parassita di Felis serval. R.C. Accad. Lincei (8) **21**: 456-460 1 pl.

Birchfield, W. see Chitwood, B. G.

**Bird,** A. F. Chemical composition of the nematode cuticle. Observations of the whole cuticle. Exp. Parasit. 5: 350–358 1 fig.

**Bird,** A. F. and **Rogers,** W. P. Chemical composition of the cuticle of third stage nematode larvae. Exper. Parasit. **5**: 449–457.

**Bischoff,** G. Oberdevonische Conodonten (to I δ) aus dem Rheinischen Schiefergebirge. Notizbl. hess. Landesamt. Bodenforsch. **84**: 115–137 3 pls.

**Bischoff,** G. and **Ziegler,** W. Das Alter der "Urfer Schichten" im Marburger Hinterland nach Conodonten. Notizbl. hess. Landesamt. Bodenforsch. **84**: 138–169 4 pls.

**Bisseru**, B. (1). On a new acanthocephalan, *Echinopardalis lerouxi* n. sp., from a jackal (*Canis adustus*) in central Africa. J. Helminth. 30: 41-50 11 figs.

Bisseru, B. (2). Three new species of the genus Neodiplostomum Railliet, 1919, from central African birds of prey, with a note on Neodiplostomum canaliculatum (Nicoll, 1914) Dubois, 1937. J. Helminth. 30: 51-62 8 figs.

Bisseru, B. (3). On four new trematodes of the genus Strigea from

central African birds of prey. J. Helminth. 30: 63-79 11 figs.

Bisseru, B. (4). On three new species of strigeid trematodes from an African crocodile and the erection of a new family, Neostrigeidae. J. Helmint. 30 1956: 217-232, 15 figs.

**Blanc,** M. A propos de la lutte contre l'onchocercose en Afrique Noire. Bull. Mus. Hist. nat. Paris (2) **28**: 303–306.

Blankemeyer, V. G. see Farr, M. M.

Boch, J. (1). Knötchenwurmbefall (Ternidens deminutus) bei Rhesusaffen. Z. angew. Zool. 43: 207-214, 3 figs.

Boch, J. (2). Der Einfluss des Alters auf die Verwurmung von Hunden, Katzen und Füchsen. Z. Parasit. 17: 349–359 2 figs.

**Böhm,** L. K. and **Supperer,** R. Beiträge zur Kenntnis tierischer Parasiten. II. Zbl. Bakt. Abt. I **167**: 170–177 3 figs.

**Bondi,** C. (1). Osservazioni sulla rigenerazione in *Dugesia lugubris*. Arch. Zool. (ital.) Napoli **40** 1955 : 265–273, 1 fig.

Bondi, C. (2). Esemplari di "Dugesia lugubris" come "test" biologico nell'esame della tossicita degli estratti embrionali di anfibi anuri (Bufo vulgaris). R.C. Accad. Lincei (8) 21: 340–343.

Bondi, C. (3). Osservazioni sulla rigenerazione degli occhi in *Dugesia lugubris*. Riv. Biol., Perugia **48**: 123–132 5 figs. [English summary].

Bonnet, D. D. see Alicata, J. E.

**Bonsdorff,** B. von. Diphylloboth-rium latum as a cause of pernicious anemia. Exp. Parasit. **5**: 207-230 10 figs.

Boogaers, P. A. M. see Bijloo, J. D.

**Bouisset,** L. and **Ruffié,** J. Vers parasites des oiseaux de la region de Toulouse. Bull. Soc. Hist. nat. Toulouse **90** 3–4 1955 : 293–300.

**Boyd,** E. M. Two new species of stomach worms (Nematoda: Spiruroidea) from the blue jay, *Cyanocitta cristata* L. Proc. helminth. Soc. Wash. **23**: 70–74 2 figs.

Boyd, E. M., Diminno, R. L. and Nesslinger, C. Metazoan parasites of the blue jay, Cyanocitta cristata L. J. Parasit. 42: 332-346 1 pl.

Boyd, J. M. (1). The Lumbricidae of Hirta, St. Kilda. Ann. Mag. nat. Hist. (12) 9: 129-133.

Boyd, J. M. (2). The Lumbricidae in the Hebrides. II.—Geographical distribution. Scot. Nat. 68: 165–172.

Bradley, R. E. see Levine, N. D. Bradshaw, R. C. see Ward, J. W.

Brande, J. van den, Kips, R. H. and D'Herde, J. Survey of the results of four years experiments on the chemical control of the potato root eelworm. Nematologica 1: 81–87.

Brande, J. van den see D'Herde, J. Brande, J. van den see Gillard, A.

**Brandenburg**, J. Neurosekretorische Zellen des Regenwurms. Naturwissenschaften **43**: 453.

Braun, A. J. see Goheen, A. C.

Bravo-Hollis, M. and Sogandares-Bernal, F. Trematodes of marine fishes of Mexican waters. IX. Four gasterostomes from the Pacific coast. J. Parasit. 42: 536–539 4 figs.

**Brehm,** V. Beiträge zur Kenntnis der Quell- und Subterranfauna des Lunzer Gebietes. S.B. öst. Akad. Wiss Abt. I. **165**; 323–336 5 figs.

**Bremner,** K. C. The parasitic life-cycle of *Haemonchus placei* (Place) Ransom (Nematoda: Trichostrongylidae). Aust. J. Zool. **4**: 146–151 1 pl.

Brener, Z. see Pellegrino, J.

Brinck, P., Dahl, E. and Wieser, W. On the littoral subsoil fauna of the Simrishamn Beach in Eastern Scania. K. fysiogr. Sällsk. Lund. Förh. 25: 109–129.

**Brønsted,** H. V. Experiments on the time-graded regeneration field in planarians, with discussion of its morphogenetic significance. Biol. Medd. **23** 3: 1–39 28 figs.

**Bronzini**, E. and **Bertolino**, P. Indagini sperimentali sulla specificità dell' ospite dell' *Echinococcus granulosus* allo stato adulto. Boll. Zool. **21** 1954: 219–221.

Brooke, M. M. see Sadun, E. H.

**Brown**, E. B. (1). Some current British soil pest problems. Soil Zoology, London, 1955: 256–268.

**Brown**, E. B. (2). Damage to henbane by stem eelworm *Ditylenchus dipsaci* (Kuhn, 1857) Filipjev, 1936. J. Helminth. **30**: 143–144 l pl.

**Brown**, E. B. (3). A seed-borne attack of Chrysanthemum eelworm (*Aphelenchoides ritzema-bosi*) on the annual aster (*Callistephus chinensis*). J. Helminth. 30: 145–148, 1 pl.

Brown, E. B. see Goodey, J. B.

Brown, E. B. see Legowski, T. J.

**Brown,** G. L. Tylenchorhynchus lenorus, n. sp. (Nematoda: Tylenchida), associated with the roots of wheat. Proc. helminth. Soc. Wash. 23: 152–153 fig.

Brown, T. H. see Spedding, C. R. W.

**Brun**, J. Évolution de la prophase méiotique chez *Caenorhabditis elegans* Maupas 1900, sous l'influence de températures élevées. Bull. biol. **89** 1955 : 326–346 2 pls.

**Bryce,** D. The nomenclature of the Rotatoria. Microscope **11** 1956: 60–66.

Brygoo, E. R. see Chabaud, A. G.

**Buchanan,** G. D. Occurrence of the cestode *Mathevotaenia surinamensis* (Cohn, 1902) Spasskii, 1951 in a North American armadillo. J. Parasit. **42**: 34–38 l pl.

**Buchholz,** H. and **Rühmann,** D. Notholca und Kellicottia. Über einheimische Vertreter zweier Rädertier-Gattungen. Mikrokosmos **45**: 267–270 2 pls., 1 fig.

Buck, H. Zur Verbreitung einiger Gruppen mèderer Süsswassertiere in Fliessgewässern Nordwürttembergs (Spongiae, Bryozoa, Turbellaria partim, Oligochaeta partim, Hirudinea, Mollusca, Crustacea partim, Ephemeroptera). Jh. Ver. vaterl. Naturk. Württemb. III: 153–173.

Buckley, J. J. C. and Edeson, J. F. B. On the adult morphology of Wuchereria sp. (malayi?) from a monkey (Macaca irus) and from cats in Malaya, and on Wuchereria pahangi n. sp. from a dog and a cat. J. Helminth. 30: 1–20 25 figs.

Buckley, J. J. C. see Edeson, J. F. B. Bueding, E. and Farrow, G. W. Identification of succinic acid as a constituent of the perienteric fluid of Ascaris lumbricoides. Exp. Parasit. 5; 350-358.

**Bull,** P. C. and **Taylor,** R. H. The influence of host age in parasitism of wild rabbits. Proc. N.Z. ecol. Soc. No. 3 1955: 29–30.

**Bullock**, W. L. The comparative histochemistry of alkaline glycerophosphatase in the Acanthocephala. J. Parasit. **42** 4 Sect. 2: 29. [Abstract].

**Bumpus,** D. F. and **Pierce,** E. L. The hydrography and the distribution of chaetognaths over the Continental Shelf off North Carolina. Deep Sea Res. **3** Suppl. 1955: 92–109 12 figs.

Burnett, H. S. see Parmelee, W. E.

Burton, P. R. Morphology of Ascocotyle leighi n. sp. (Heterophyidae), an avian trematode with metacercaria restricted to the conus arteriosus of the fish, Mollienesia latipinna Le Sueur. J. Parasit. 42: 540–543 1 pl.

**Buša**, V. Eine neue Trematode der Hausgans (*Anser anser domesticus*). Biológia, Bratislava 11: 751–754 1 fig. [German summary].

Bychowsky, B. E. see Roman, E.

Byrd, E. E. see Dunn, M. C.

Byrd, E. E. see Jordan, H. E.

Caballero y C., E. (1). Hirudíneos de México. XIX. Presencia de Pontobdella macrothela Schmarda, 1861, en aguas marinas del Golfo de Mexico. An. Esc. nac. Cienc. biol. Mex. 8 1955: 152–158 8 figs. [English summary].

Caballero y C., E. (2). Helmintos de la Republica de Panama. XVIII. Algunos trematodos de Crocodilianos. 1ª parta. An. Inst. Biol. Mex. 26 1955 [1956] : 433–446 8 figs.

Caballero y C., E. and Hidalgo, E. Helmintos de la Republica de Panama. XVI. Descripcion de dos especies de trematodos digeneos de *Florida caerulea* (L.). Rev. Soc. mex. Hist. nat. 16 1955: 29–34 3 figs.

Caballero y C., E., Hidalgo, E. and Grocott, R. G. Helmintos de la Republica de Panama. XVII: Cuatro especies de trematodos de peces marinos con descripcion de una nueva forma. Rev. bras. Biol. 16: 181–194 11 figs.

Cable, R. M. Opistholebes diodontis n. sp., its development in the final host, the affinities of some amphistomatous trematodes from marine fishes and the allocreadioid problem. Parasitology 46: 1-13, 8 figs.

Cable, R. M. and Myers, R. M. E. A dioecious species of *Gyrocoelia* (Cestoda: Acoleidae) from the naped plover. J. Parasit. **42**: 510–515 1 pl.

Cabrera, B. D. see Rozeboom, L. E.

Cambournac, F. J. C., Gândara, A. F. and Pena, A. J. Inquérito sobre bilharsiose vesical e parasitoses intestinais nas áreas administrativas de Cuchi, Menongue e Longa (Angola). An. Inst. Med. trop., Lisbon 12 1955: 549–574.

Cameron, J. W., Baines, R. C. and Clarke, O. F. Resistance of hybrids of the trifoliate orange to infestation by the citrus nematode. Caryologia 6 Suppl. Atti IX Congr. Internat. Genet. pt. 2 1954: 1123–1124.

**Cameron,** T. W. M. Parasites and parasitism, London (Methuen & Co.) 1956, pp. xix + 322, 115 figs.

Campana-Rouget, Y. (1). Sur un nouveau subuluride de l'écureuil Xerus rutilus (Cretzschm. 1826). Ann. Parasit. hum. comp. 31: 288–299 2 figs.

Campana-Rouget, Y. (2). Sur le genre *Parascarophis* Campana 1955 (Spirurinae-Nematoda). Ann. Parasit. hum. comp. **31**: 665–666 fig.

Campana-Rouget, Y. (3). Parasites de poissons de mer ouest-africains récoltés par J. Cadenat, VI et VII.—Nématodes (2<sup>e</sup> et 3<sup>e</sup> notes). Bull. Inst. franç. Afr. N. **18A**: 459–466 3 figs.

Campana-Rouget, Y. and Théodoridés, J. A propos de Angiostoma limacis Dujardin 1845 (Nematoda, Angiostomatidae) parasite du tube digestif des limaces. Ann. Parasit. hum. comp. 31: 23–28 3 figs.

Campana-Rouget, Y see Chabaud, A. G.

Campana-Rouget, Y. see Dollfus, R. P.

Campbell, J. W. see Self, J. T.

Campbell, W. C. and Todd, A. C. (1). Emission of cercariae and meta-

cercariae in snail faeces. Trans. Amer. micr. Soc. 75: 241-243 fig.

Campbell, W. C. and Todd, A. C. (2). The fringed tapeworm in Wisconsin. J. Parasit. 42:530.

Campillo, M. C. de. Denuncia en España de Ostertagia circumcincta (Stadelman 1894) Ransom 1907 y Trichostrongylus vitrinus Looss 1905, en Ovis aries L. de la Provincia de Valladolid. Rev. ibér. Parasit. 16: 253–265 4 figs.

**Čanadjija,** S. Saitenwürmer (Gordioidea). Bull. Mus. Hist. nat. Serbe **8B**: 1–38 19 figs., map.

Capron, A. see Biguet, J.

**Capstick,** C. K. Lactophenol preparations for soil nematodes. Nature, Lond. **177** 4515: 896–897.

Caron, J. and Jarry, D. Première contribution à l'étude des endoparasites des petits mammifères de Banyuls. Vie et Milieu 7: 116-120.

Carvalho, A. M. de see Casaca, V. R.

Carvalho, A. M. de see Janz, G. J.

Carvalho, J. C. de. "Mononchus soutoi" sp. n. (Nematoda, Mononchidae. Rev. brasil. Biol. 16: 133-134 3 figs.

Casaca, V. R. and Carvalho, A. M. de. Prospecção das endemias reinantes na área de Vila Salazar (Dalatando-Angola). An. Inst. Med. trop., Lisbon 12 1955: 575–591. [English summary].

Casanova, G. (1). Taux de bourgeonnement des segments dans la croissance et le régénération de l'annélide *Platynereis massiliensis* (Moquin-Tandon). C.R. Soc. Biol. Paris **148** 1954 : 1446–1448.

Casanova, G. (2). Croissance relative et croissance régénératrise chez l'annélide *Platynereis massiliensis* (Moquin-Tandon). C.R. Acad. Sci. Paris 242: 2485–2486.

Cauthen, G. E. see Landram, J. F.

**Červa,** L. Intestinal parasites of children's houses in the district of Prague. Čsl. parasit. **2** 1955: 22–34 9 figs. [English summary].

**Chabaud,** A.-G. (1). Remarques sur les nématodes parasites du caecum des éléphants milieu très préservé des

phénomènes de sélection. C.R. Acad. Sci. Paris **243**: 436–439.

Chabaud, A.-G. (2). Remarques sur le cycle évolutif des filaires du genre Diplotriaena et redescription de D. monticelliana (Stossich 1890). Vie et Milieu 6 1955: 342–347 4 figs.

**Chabaud,** A. G. (3). Redescription du nématode *Physalopteriata citilli* (Rud. 1819) et remarques sur les Physaloptères parasites de rongeurs. Bull. Soc. zool. Fr. **81**: 52–62 4 figs.

Chabaud, A. G. (4). Essai de révision des physaloptères parasites de reptiles. Ann. Parasit. hum. comp. 31: 29-52 2 figs.

**Chabaud,** A. G. (5). Structure céphalique de *Gendria tilapiae* Baylis, 1930. Ann. Parasit. hum. comp. 31: 310–311 fig.

Chabaud, A. G. and Brygoo, E.-R. Description de *Rictularia lemuri* n. sp. (Nematoda: Thelaziidae). Mém. Inst. sci. Madagascar 11A: 43–49 17 figs.

Chabaud, A. G. and Campana-Rouget, Y. (1). Helminthes de la région de Banyuls. IV. Filaire du Flamant rose. Synonymie des genres Striatofilaria Lubimov et Paronchocerca Peters. Vie et Milieu 7: 350–356 3 figs.

Chabaud, A. G. and Campana-Rouget, Y. (2). Le genre Ortleppina Schulz 1927, parasite d'Apodes, et non de Serpents, est synonyme du genre Heliconema Travassos 1919. Ann. Parasit. hum. comp. 31: 308–309.

**Chabaud,** A. G. and **Golvan,** Y. Nouvelle filaire parasite des grives en France. Ann. Parasit. hum. comp. **31**: 405–413 3 figs.

Chabaud, A. G., Golvan, Y. J. and Rousselot, R. Description du trématode *Strigea geoduboisi* n. sp. parasite d'un ciconiiforme Africain. Ann. Parasit. hum. comp. **31**: 543–551 5 figs.

Chabaud, A. G. and Grétillat, S. Metastrongylus madagassariensis n. sp., quatrième espèce de strongyle pulmonaire chez de porc domestique. Ann. Parasit. hum comp. 31:572–5774 figs.

Chabaud, A. G. and Rousselot, R. (1). Sur quelques filaires d'Afrique

Equatoriale. Ann. Parasit. hum. comp. 31: 53-98 23 figs.

Chabaud, A. G. and Rousselot, R. (2). Description d'un nouvel acuariide d'Afrique equatoriale: Schistogendra incisa n. gen., n. sp. Ann. Parasit. hum. comp. 31: 242–247 3 figs.

Chabaud, A. G. and Rousselot, R. (3). Pygarginena africana n. sp. (Nematoda, Ascaropsinae), parasite d'un céphalopode africain. Ann. Parasit. hum. comp. 31: 248–254 3 figs.

**Chabaud,** A. G. and **Rousselot,** R. (4). Deux nouveaux *Richtlaria* (Nematoda, Thelaziidae) d'Afrique équatoriale. Ann. Parasit. hum. comp. 31: 255–265 5 figs.

**Chabaud,** A. G. and **Rousselot,** R. (5). Nematodes parasites d'un elephant du Moyen Congo. Ann. Parasit. hum. comp. 31: 578–597 17 figs.

**Chalupský**, J. Parasitic nematodes in marine fishes. Čsl. parasit. **2** 1955 : 83–88 1 fig. [English summary].

**Chan,** K. F. Methods for securing infective eggs of *Syphacia obvelata* from infected mice. J. Parasit. **42** 4 Sect. 2: 18. [Abstract].

Chandler, A. C. see Kuntz, R. E. Channon, C. E. see Harvey, L. A.

**Chatterji**, P. N. (1). On a new species of the genus *Lutztrema* Travassos, 1941. Proc. Indian sci. Congr. Ass. 42nd 3 1955: 282. [Abstract].

Chatterji, P. N. (2). Studies on some diplostome trematodes of the sub-family Crassiphialini Dubois, 1936. J. Parasit. 42: 147–150 2 figs.

**Chauhan**, B. S. & **Chauhan**, Y. S. Schistosomiasis in India. Proc. Indian sci. Congr. Ass. **43**: 286. [Abstract].

Chekanovskaya, O. V. Contribution to the oligochaet-fauna in the Enisei-basin. Zool. Zh. 35 No. 5: 657–667 4 figs. [Russian, English summary, p. 5.]

Ch'iang, I. H. see Hoeppli, R.

Chin, T.-H. and Tu, C.-M. Trichinella spiralis in a cat in Kweiyang, with a review of literature. Peking nat. Hist. Bull. 20 1952: 101-103.

Chitwood, B. G. A revision of the genus *Haliplectus* Cobb, 1913. Proc. helminth. Soc. Wash. 23: 78-87 2 figs.

Chitwood, B. G. and Birchfield, W. Nematodes. Their kinds and characteristics. Bull. St. Pl. Bd. Fld. 29:1-4922 pls., 8 figs.

Choquette, L. P. E. Observations on experimental infection of dogs with *Echinococcus*. Canad. J. Zool. **34**: 190–192.

Choquette, L. P. E. and Pimlott, D. H. Gastrointestinal parasites of beaver in Newfoundland, Canad. J. Zool. 34: 209.

**Chowaniec,** W. Research on the biology and ecology of *Galba truncatula* and the larval forms of the common liver fluke. Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 177–178. [English summary].

Chowdbury, A. B., Dasgupta, B., Ray, H. N. and Bhadhuri, N. V. Studies on calcareous corpuscles in *Taenia saginata*. Proc. Indian sci. Congr. Ass. 43rd 3: 285–286. [Abstract].

**Christensen,** B. Studies on Enchytraeidae 6. Technique for culturing Enchytraeidae, with notes on cocoon types. Oikos **7**: 302–307 3 figs.

Chute, R. M. The dual antibody response to experimental trichinosis. Proc. helminth. Soc. Wash. 23: 49–58 6 tables.

Ciordia, H. Cytological studies of the germ cell cycle of the trematode family Bucephalidae. Trans. Amer. micr. Soc. 75: 103-116 2 pls.

Ciordia, H. see Jones, A. W.

Clark, D. T. Identification of beta Zn S in the intestinal cells of *Strongylus* spp. J. Parasit. **42**: 77–80.

Clark, D. T. see Levine, N. D.

Clark, R. B. (1). On the origin of neurosecretory cells. Ann. Sci. nat. (Zool.) (11) 18: 199-207, 2 figs.

Clark, R. B. (2). Capitella capitata as a commensal, with a bibliography of parasitism and commensalism in the polychaetes. Ann. Mag. nat. Hist. (12) 9: 433–448.

Clark, R. B. (3). The eyes and the photonegative behaviour of *Nephtys* (Annelida, Polychaeta). J. exp. Biol. 33: 461-477 4 figs.

Clark, R. B. (4) The blood vascular system of Nephtys (Annelida,

Polychaeta). Quart. J. micr. Sci. 97: 235–249 6 figs.

Clarke, O. F. see Cameron, J. W.

Coetzee, V. Meloidogyne acronea, a new species of root-knot nematode. Nature, Lond. 117: 899-900.

Cognetti, G. (1). Variazioni delle spine opercolari in nuove stazioni di Mercierella enigmatica Fauvel (Polychaeta, Serpulidae) sulla costa toscana. Mem. Soc. tosc. Sci. nat. 60B 1953: 36–40 1 fig.

Cognetti, G. (2). I Sillidi dal punto di vista ecologico e zoogeografico. Boll. Zool. 22 fasc. 2 1955: 225–228.

Coil, W. H. (1). Two new hymenolepidid cestodes from Mexican birds with observations on *Hymenolepis crocethiae* Webster, 1947. J. Parasit. 42: 584–587 14 figs.

Coil, W. H. (2). Two new species of microphallid trematodes of the genus Levinseniella from charadriiform birds. Proc. helminth. Soc. Wash. 23: 135–137 2 figs.

Coil, W. H. (3). Carneophallus muellhaupti, n. sp. a microphallid trematode from the sanderling from southern Mexico. Proc. helminth. Soc. Wash. 23: 138–141 1 fig.

Coker, C. M. Effects of cortisone on cellular inflammation in the musculature of mice given one infection with *Trichinella spiralis*. J. Parasit. **42**: 479–484 3 pls.

Coker, C. M. and Lichtenberg, F. A revised method for isolation of *Schistosoma mansoni* eggs for biological experimentation. Proc. Soc. exp. Biol. Med. **92**: 780–782 2 figs.

Coleman, M. T. see Schneider, M. D.

Coleman, R. M. and Mizelle, J. D. The presence and source of ascorbic acid in Hymenolepis nana var. fraterna (V. Siebold, 1852). Trans. Amer. micr. Soc. 75: 483–491.

Coman, D. Deux nématodes (Mermithides) nouveaux de la nappe phréatique de quelques rivières de Transylvanie. Stud. Cercet. Acad. rom. Fil. Cluz. (2) 6: 1955: 95–106 11 figs. [French résumé].

Cooper, B. A. (1). A preliminary key to British species of Heterodera for

use in soil examination. Soil Zoology, London, 1955: 269–280 5 figs.

Cooper, B. A. (2). A mechanical device for concentrating *Heterodera* cysts (Nematoda). Soil Zoology, London, 1955: 385–389 1 fig.

Cooper, B. A. (3). Mounting technique for identification of *Heterodera* eelworm cysts. Soil Zoology, London, 1955: 419–420.

Copland, W. O. Notes on the food and parasites of pike (*Esox lucius*) in Loch Lomond. Glasg. Nat. 18: 230–235 2 tables.

Corbella, C., Croce, N. della and Ravera, O. Plancton, bentos e chimismo delle acque e dei sedimenti in un lago profondo (Lago Maggiore). Mem. Ist. ital. Idrobiol. de Marchi 9: 125–263 26 figs.

Corliss, J. O. see Harman, W. J.

Corrêa, D. D. (1). Aspectos da biologia e da ecologia de alguns nemertinos arenicolas. An. Acad. bras. Cienc. 28 Res. do Comun. XXX-XXXI. [Abstract].

Corrêa, D. D. (2). Estado de nemertinos Mediterrâneos (Palaeo e Heteronemertini). An. Acad. bras. Cienc. 28: 195–214 6 pls.

Cort, W. W. see Hendricks, J. R. Cort, W. W. see Mathies, A. W., Jr.

Cracium-Simionescu, O. see Nitzulescu, V.

**Cram,** E. B. Stepping stones in the history of the American Society of Parasitologists. J. Parasit. **42**: 461–473.

Cresp, J. Sur les processus normaux et anormaux du bourgeonnement chez le serpulidae *Salmacina incrustans* (Clap.). Bull. Soc. zool. Fr. 81: 183–191.

Crites, J. L. A redescription of Cruzia americana, a nematode parasitic in the opossum, Didelphis marsupialis virginiana. J. Parasit. 42 68–72 1 pl.

Croce, N. della see Corbella, C.

Cross, J. H., Jr. and Scott, J. A. (1). Natural immunity of the white rat to the mouse parasite Nematospiroides dubius Baylis, 1926 (Nematoda Heligmosomidae). J. Parasit. 42 4 Sect. 2: 15-16. [Abstract].

Cross, J. H., Jr. and Scott, J. A. (2). Some stages in the life cycle of *Nematospiroides dubius* Baylis, 1926 (Nematoda Heligmosomidae). J. Parasit. 42 4, Sect. 2:36. [Abstract].

Crusz, H. The progenetic trematode Cercaria patialensis Soparkar in Ceylon. J. Parasit. 42: 245.

**Cunningham,** F. C. A comparative study of tropisms exhibited by different stages of *Nippostrongylus muris* (Nematoda: Trichostrongylidae). Biol. Stud. Cath. Univ. Amer. No. 36: 1–24.

Czaplinski, B. (1). A critical elaboration of a list of Hymenolepididae occurring in Anseriformes. Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 241–242. [English summary].

Czaplinski, B. (2). Hymenolepididae Fuhrmann, 1907 (Cestoda) in some domestic and wild Anseriformes in Poland. Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 269–270. [English summary].

Czaplinski, B. (3). Hymenolepididae Fuhrmann, 1907 (Cestoda) parasites of some domestic and wild Anseriformes in Poland. Acta Parasit. polon. 4: 175–373 162 figs.

Czaplinski, B. and Fagasinski, A) Domestic turkey (Meleagris gallopavo, as new host of Sobolevicanthus gracilis (Zeder, 1803) Spassky et Spasskaya, 1954 (Hymenolepididae) tapeworm. Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 161–62. [English summary].

Czaplinski, B., Malozewski, A and Świetlikowski, M. The influence of subclinical Amidostomum anseris (Zeder, 1800) invasion on the growth and fattening of geese. Wiad. parazyt. Warszawa 2 5 Supp 1. 1956: 187–188. [English summary].

Czaplinski, B. and Przyjałkowski, Z. The invasion of common intestinal nematodes of hens which died of tuberculosis, Newcastle disease, cholera typhus, infectious nasal catarrh, and non-infectious disease, and of healthy hens. Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 189–190. [English summary].

Czapski, Z. Attempts to establish the intensity of *Ascaris lumbricoides* invasion. Wiad. parazyt. Warszawa. 2 5 Suppl. 1956: 81–82.

Dahl, E. see Brinck, P.

**Dales,** R. P. An annotated list of the pelagic Polychaeta Ann. Mag. nat. Hist. (12) 9: 289–304

**Dalmat,** H. T. Proposed determination under the plenary powers, of the authorship of, and of the original reference for, the name *Filaria volvulus* (Class Nematoda) and proposed validation under the same powers of the emendation from *volvulas* to *volvulus* as the specific name of this species. Bull. zool. Nom. **12**: 86–89.

**Dasgupta,** B. see Chowdhury, A. B.

**Daugherty**, J. W. (1). The effect of host castration and fasting on the rate of glycogenesis in *Hymenolepis diminuta*. J. Parasit. **42**: 17–20.

**Daugherty**, J. W. (2). The active absorption of methionine by cestodes. J. Parasit. **42** 4 Sect. 2:35. [Abstract].

**Daugherty**, J. W. and **Taylor**, D. Regional distribution of glycogen in the rat cestode, *Hymenolepis diminuta*. Exp. Parasit. **5**: 376–390.

Davenport, D. see Bartel, A. H.

**David,** P. M. Sagitta planctonis and related forms. Bull. Brit. Mus. (nat. Hist.) Zool. 4: 435–451 l pl., 7 figs.

**Dawydoff**, C. Contribution à l'étude des invertébrés de la faune marine benthique de l'Indochine. Bull. biol. Suppl. No. 39 1952 : 1–158 2 maps.

Day, J. H. and Morgans, J. F. C. The ecology of South African Estuaries part 7. The biology of Durban Bay. Ann. Natal Mus. 13: 259–312 1 pl., 1 map.

**Deane,** M. P. Adolfo Lutz, helmintologista. Rev. Inst. Adolfo Lutz **15** 1955: 73–85.

Deblock, S. see Biguet, J.

Deboutteville, C. D. Recherches sur la faune interstitielle des sédiments marins et d'eau douce à Madagascar. IX. Sur la presence dans les eaux souterraines littorales de Madagascar de l'annelide polychete: Pisionidens indica (Aizar et Alikunki). Mém. Inst. Sci. Madagascar 10A: 95–99 2 figs.

Defretin, R. La neurosécrétion des polyosides et ses rapports avec

l'épitoquie chez les Néréidiens. Ann. Sci. nat. (Zool.) (11) **18**: 209–222, 5 figs.

D'Herde, J., Kips, R. H. and Brande, J. van den. Aperçu des techniques employées dans les recherches sur le nématode doré de la pomme de terre. Nematologica 1:14-19. [Discussion p. 19].

D'Herde, J. see Brande, J. van den.

**Deo,** P. G. and **Srivastava,** H. D. Studies on the biology and life-history of *Ascaridia galli*, Schrank, 1788. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 282–283. [Abstract].

Dieter, A. Vergleichende experimentelle Untersuchungen an zoophagen und phytophagen Nematoden. Wiss. Z. Univ. Halle. Math.-Nat. R. 5: 157–185 5 figs.

**Diez,** G. Die Verbreitung des Distomum hepaticum L. beim Rind im Bezirk Rostock. Wiss. Z. Univ. Rostock. Math.-Nat. R. 5: 327–344 map.

Diminno, R. L. see Boyd, E. M.

Dinnik, J. A. On Ceylonocotyle scoliocoelium (Fischoeder, 1904) and its intermediate host in Kenya, East Africa. J. Helminth. 30: 149-156 5 figs.

**Dobbin,** J. E. see Teixeira de Freitas, J. F.

Dobrowolska, H. see Jezioránska, A.

**Dobson,** R. M. and **Satchell,** J. E. *Eophila oculata* at Verulamium: a Roman earthworm population? Nature, Lond. **177**: 796–797.

**Dodson,** E. O. A note on the systematic position of the Mesozoa. Syst. Zool. **5**: 37–40.

**Doliwa,** U. Experimentelle Untersuchungen an Kartoffelnematoden (Heterodera rostochiensis Wollenweber). Wiss. Z. Univ. Rostock. Math.-Nat. R. 5: 133–149 4 figs.

**Dollfus,** R. P. (1). Variété apparemment génotypique de *Concinnum brumpti* (A. Railliet, A. Henry, Ch. Joyeux 1912) chez un chimpanze. Bull. Soc. Path. exot. **47** 1954: 826–832.

Dollfus, R. P. (2). Système de la sous-classe des Aspidogastrea E. C.

Faust et C. C. Tang 1936. Ann. Parasit. hum. comp. **31**: 11-13.

**Dollfus,** R. P. (3). Distoma arenula F. C. H. Creplin, 1825, distome peu connu, trouvé chez le poule d'eau Gallinula chloropus (L.) a Richelieu (Indre-et-Loire). Ann Parasit. hum. comp. 31: 182-188 1 fig.

**Dollfus,** R. P. (4). Un *Diplotriaena* de Galliforme (Nematoda-Filarioidea). Ann. Parasit. hum. comp. 31: 663–664 3 figs.

**Dollfus,** R. P. and **Campana-Rouget** Y. (1). Une nouvelle espèce d'Ascarophis (Nematoda, Spirurinae) chez Gadus luscus L. Révision du genre. Ann. Parasit. hum. comp. **31**: 385–404 4 figs.

**Dollfus** R. P and **Campana-Rouget**, Y. (2). Helminthes trouves dans le tube digestif de coelacanthes Mém. Inst. sci. Madagascar 11A: 33–41 18 figs.

**Dollfus,** R. P. and **Golvan,** Y. J. Mission M. Blanc – F. d'Aubenton (1954) V. – Acanthocephales de poissons du Niger. Bull. Inst. franç. Afr. N. **18A**: 1086–1109 3 pls., 12 figs.

**Dollfus,** R. P. and **Patey,** R. A propos de nouvelles localités françaises pour *Codonocephalus urniger* (Rudolphi 1819) (Trematoda, Strigeidea). Que sait-on de sa distribution géographique? Ann. Parasit. hum. comp. **31**: 189–198.

**Dollfus**, R. P., **Timon-David**, J. and **Rebecq**, J. Maturité génitale provoquée expérimentalement chez *Codonocephalus urniger* (Rudolphi) (Trematoda, Strigeidae). C.R. Acad. Sci. Paris **242**: 2997–2998.

**Doncaster,** C. C. (1). Electronic flash in photomicrography. Nematologica 1:51-55 2 pls.

**Doncaster,** C. C. (2). Some observations on the hatching responses of the cabbage-root eelworm, *Heterodera cruciferae* Franklin. Ann. appl. Biol. **44**: 283–291 2 figs.

Donner, J. (1). Die Rädertierart Habrotrocha bidens (Gosse). Verh. zool. bot. Ges. Wien 96: 73–94 6 figs.

**Donner**, J. (2). Rädertiere (Rotatorien) Stuttgart, 1956: 1–50. Beitr. naturk. Forsel. Sudw. Dtsch. **15**: 128. [Review].

**Donner**, J. (3). Die Rotatorien im Mikroskopischen Praktikum. Mikrokosmos **45**: 153–160 5 figs.

**Dorsman,** W. A new technique for counting eggs of *Fasciola hepatica* in cattle faeces. J. Helminth. **30**: 165–172 5 figs.

**Doss,** M. A. The role of documentation in parasitological research. J. Parasit. **42** 4 Sect. 2:34. [Abstract].

Dougherty, E. C. and Hansen, E. L. (1). A synthetic basal complement to liver medium for axenic cultivation of the nematode *Caenorhabditis briggsae*. J. Parasit. **42** 4 Sect. 2:17. [Abstract].

Dougherty, E. C. and Hansen, E. L. (2). Axenic cultivation of Caenorhabditis briggsae (Nematoda: Rhabditidae). V. Maturation on synthetic media. Proc. Soc. exp. Biol. Med. 93: 223–227 1 fig.

Dougherty, E. C. see Nigon, V.

**Douglas,** L. T. The early embryology of the nematotaeniid cestode, *Baerietta diana* (Helfer, 1948) comb. nov. J. Parasit. **42** 4 Sect. 2: 41. [Abstract].

**Douvres,** F. W. (1). Morphogenesis of the parasitic stages of Ostertagia ostertagi, a nematode parasite in cattle. J. Parasit. 42: 626-635 1 pl.

**Douvres,** F. W. (2). Rictularia lucifugus, n. sp. (Nematoda: Thelaziidae), from the little brown bat, Myotis lucifugus (Le Conte, 1831). Proc. helminth. Soc. Wash. 23: 40–47 8 figs., 2 tables.

Douvres, F. W. see Herlich, H.

Dozanska, W. see Iwanczuk, I.

**Drygas,** M. Soil as a source of Ascaris lumbricoides and Trichuris trichiura invasions. Wiad. parazyt. Warszawa 2 5 Suppl.: 89–91.

**Drygas,** M. and **Piotrowski,** F. On the helminthic fauna of the intestinal tract of *Lepus europaeus* Pall. Acta Parasit. polon. **3**: 377–396 2 tables. [English summary].

**Dubinina**, M. N. Superparasitism of the metacercaria *Tetracotyle variegata* (Creplin) in the Diphyllobothriidae. Zool. Zh. **35** No. 8: 1139–1145 5 figs. [Russian, with English summary, p. 5].

**Dubois,** G. (2). Notocotylus solitaria Singh, on second synonyme de N. babai Bhalerao. Bull. Soc. neuchâtel. Sci. nat. (3) 78 1955: 67–69.

**Duddington,** C. L. Inter-relations between soil microflora and soil nematodes. Soil Zoology, London, 1955: 284–301 7 figs.

**Duddington,** C. L., **Jones,** F. G. W. and **Moriarty,** F. (1). An experiment in the effect of a predacious fungus upon the soil population of potato root eelworm, *Heterodera rostochiensis* Woll. Nematologica 1: 341–343 1 fig.

**Duddington,** C. L., **Jones** F. G. W. and **Moriarty**, F. (2). The effect of predacious fungus and organic matter upon the soil population of beet eelworm, *Heterodera schachtii* Schm. Nematologica 1: 344–348 1 fig.

**Dudsiak,** J. Observations on the occurrence and ecology of *Crenobia alpina* (Dana) in the western Tatras. Polsk. Arch. Hydrobiol. **3**: 1–42. [English summary].

**Duke,** B. O. L. The intake of the microfilariae of Acanthocheilonema perstans by Culicoides grahamii and C. inornatipennis and their subsequent development. Ann. trop. Med. Parasit **50**: 32–38 1 fig.

Duke, B. O. L. see Kershaw, W. E.

**Dunagan**, T. T. Hymenolepis sphenomorphus from Sorex cinereus in Alaska. J. Parasit. **42**: 657-658 4 figs.

Dunn, M. C. and Byrd, E. E. Developmental stages in the Digenea. IV. The miracidium of Neorenifer wardi (Byrd, 1936) and Dasymetra conferta Nicoll, 1911. J. Parasit. 42 4 Sect. 2:28. [Abstract].

**Dunning,** R. A. Beet stem eelworm. Nematologica 1: 189–191.

**Durchon,** M. (1). Nouvelles recherches expérimentales sur l'epitoquie des Néréidiens. Ann. Sci. nat. (Zool.) (11) 18: 1-14, 1 pl., 8 figs.

Darchon, M. (2). Role de cerveau dans la maturation génitale et le déclenchement de l'épitoquie chez les Néréidiens. Ann. Sci. nat. (Zool.) (11) 18: 269–273.

**Durchon,** M. (3). Mode de reproduction et développement de *Nereis* (*Ceratonereis*) costae Grube (Annélide

Polychéte) à Alger. Arch. Zool. exp. gen. 93 (Notes et Rev.): 57-69, 8 figs.

Durchon, M. see Lafon, M.

**Durie,** P. H. The paramphistomes (Trematoda) of Australian ruminants. III. The life-history of *Calicophoron calicophorum* (Fischoeder) Nasmark. Aust. J. Zool. 4: 152–157 figs.

**Dutt,** S. C. and **Mehra,** K. N. Studies on the life history of *Hymenolepis farciminosa* (Goeze, 1782), a tapeworm of crow and collared myna. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 283–284. [Abstract].

Dutt, S. C. and Srivastava, H. D. (1). A revision of the genus *Ornithobilharzia* Odhner, 1912. (Trematoda: Schistosomatidae). Proc. Indian sci. Cong. Ass. 42nd 3 1955: 283. [Abstract].

Dutt, S. C. and Srivastava, H. D. (2). Studies on the life history of Orientobilharzia dattai (Dutt and Srivastava, 1952) n. comb — a blood-fluke of domestic mammals. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 350–351. [Abstract].

Dutt, S. C. and Srivastava, [H. D.] (3). Biological studies on *Oriento-bilharzia dattai* (Dutt and Srivastava, 1952) — a blood fluke of domestic mammals. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 351. [Abstract].

Dutt, S. C. and Srivastava, H. D. (4). Toxicity of certain chemicals to the miracidia and cercariae of Schistosoma indicum and Orientobiharzia dattai. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 351–352. [Abstract].

Dutt, S. C. see Srivastava, H. D.

Dyk, V. (1). Der gleichzeitige Zustand der Vorschung über die Parasitin der slowakischen Fische. Biológica, Bratislava 10 1955: 162– 172 9 figs. [German summary].

**Dyk**, V. (2). Die Fischparasiten der Tatraseen. Čsk. Parasit. 3: 33–42 5 figs.

**Dyk,** V. (3). Raphidascaris acus, ein wichtiger Parasit von in der Slowakei auftretenden Fischen. Biólogia, Bratislavia 11: 70–76 2 figs. [German summary].

Dyk, V. and Dyková, S. Beitrag zur Kenntnis der Nematoden bei der Schildkrote *Testudo graeca*. Čsk. Parasit. 3: 43–48 4 figs. [German summary].

**Dyk**, V. and **Lucký**, Z. Príspevek k poznani ohnisek parasitu plovelnych ryb v rybničních soustavách. Čsl. Parasit. **1** 1954: 77–84 2 pls.

Dyk, V. see Lucký, Z.

Eble, H. Darmdurchbrüche bei einem Eisbären durch übermässigen Befall von Ascariden. Zool. Gart., Lpz. 21: 311–313.

Edeson, J. F. B., Wharton, R. H. and Buckley, J. J. C. Adult specimens of *Wuchereria* recovered from forest and domestic animals in Malaya. Trans. roy. Soc. trop. Med. Hyg. 50: 1.

Edeson, J. F. B. see Buckley, J. J. C.

Edmonds, S. J. Australian Sipunculoidea. II. The genera *Phascolosoma*, *Dendrostomum*, *Golfingia*, *Aspidosiphon* and *Cleosiphon*. Aust. J. Mar. and Freshw. Res. **7**: 281–315 4 pls., 21 figs.

Edwards, E. E. Studies on resistence to the root-knot nematode of the genus *Meloidogyne* Goeldi, 1887. Proc. helminth. Soc. Wash. 23: 112–118.

Ehrenford, F. A. Canine ascariosis—a potential zoonosis. J. Parasit. 42 4 Sect. 2: 12-13. [Abstract].

Eliassen, E. The oxygen supply during ebb of Arenicola marina in the Danish Waddensea. Årb. Univ. Bergen. Naturw. R. 1955 12 1956: 1-9.

Ellenby, C. (1). A source of the variation of hatching data for the potato root eelworm, *Heterodera rostochiensis* Wollenweber. Nematologica 1: 111.

Ellenby, C. (2). The cyst of the potato-root eelworm (*Heterodera rosto-chiensis* Wollenweber) as a hatching unit. Ann. Appl. Biol. 44: 1-15 4 figs.

Eller, E. R. Additional scolecodonts from the Potter Farm formation of the Devonian of Michigan. Ann. Carnegie Mus. 33 1955: 347–386. 7 pls.

Enăceanu, V. Contributions à la connaissance du plancton des lacs Oltina, Ciamurlia et Iortmac (Roumaine). Notul. biol. București 5 1947: 205-216.

Enăceanu, V. and Malacea, I. Observatiuni privind ecologia și răspindirea rotiferului *Brachionus buda-pestinensis* Daday in opele Romînești [*Brachionus budapestinensis* Daday dans les eaux roumaines]. Bul. Inst. Cercet.-Pisc. Roman 15 No. 4: 94–95.

Endean, R., Kenny, R. and Stephenson, W. The ecology and distribution of intertidal organisms on the rocky shores of the Queensland mainland. Aust. J. Mar. Freshw. Res. 7:88–146 7 pls., 13 figs.

Endean, R., Stephenson, W. and Kenny, R. The ecology and distribution of intertidal organisms on certain islands off the Queensland coast. Aust. J. Mar. and Freshw. Res. 7: 317–342 8 figs.

**Epure,** E. X. Die Fauna der Hirudinen im Banat. Ann. Sci. Univ. Jassy (2) **30** 1947: 29–37.

Erhardová, B. (1). Trematoden aus *Microtus oeconomus* Méhelyi. Čsl. parasit. 2 1955: 38–40 2 figs. [German summary].

Erhardová, B. (2). Parasitische Würmer der Nagetiere in der Tschechoslowakei. Čsk. Parasit. 3: 49–66 9 figs. [German summary].

Erhardová, B. and Kotrlý, A. Helminthen aus dem Verdaungstract der freilebenden Wiederkäuern. Čsl. parasit. 2 1955; 41–68 28 figs. [German summary].

Erhardová, B. and Ryšavý, B. K otáxce kvantitatiorisch koprodo gichkých vyšetřovacích metod v helmintologii. Čsl. parasit. 2 1955: 69–74 2 figs.

Etges, F. J. (1). Notes on the use of technicon mounting medium for in toto preparations. J. Parasit. 42: 30.

Etges, F. J. (2). Three new cercariae from *Amnicola pilsbryi* Walker, 1906, with some notes on their life histories. J. Parasit. **42**: 86–93 1 pl.

Etges, F. J. and Patzer, M. E. Studies on the genus *Plagitura* Holl, 1928 (Trematoda: Plagiorchiidae). J. Parasit. **42** 4 Sect. 2: 37. [Abstract].

Euzet, L. (1). Larves gyrodactyloides nageantes de quelques trématodes monogénétiques de poissons marins. Bull. Soc. neuchâtel. Sci. nat. (3) **78** 1955 71–79 17 figs.

Euzet, L. (2). Une espèce nouvelle d'*Echeneibothrium* van Ben, 1850. Bull. Soc. neuchâtel. Sci. nat. (3) **79**: 39-41 1 pl., 2 figs.

Eveleth, D. F. see Shumard, R. F.

Facinelli, E. Osservazioni idrobiologiche sul lago di sbarraments di S. Giustina. Trudi Trentini 32 1955: 69-91 4 figs.

Fagazinski, A. see Czaplinski, B.

Fahmy, M. A. M. (1). Studies on Morganiella talpae and the taxonomic consideration of the genus Morganiella (Nematode, Trichostrongylidae). Z. Parasit. 17: 346–348 1 fig.

Fahmy, M. A. M. (2). An investigation on the life cycle of *Nematospiroides dubius* (Nematoda: Heligmosomidae) with special reference to the free-living stages. Z. Parasit. 17: 394–399 1 fig.

Fain, A. (1). Nasal trichobilharziasis: a new avian schistosomiasis. Nature, Lond. 177: 389.

Fain, A. (2). Coenurus of *Taenia brauni* Setti parasitic in man and animals from the Belgian Congo and Ruanda-Urundi. Nature, Lond. 178: 1353.

Fain, A. (3). Les schistosomes d'oiseaux du genre *Trichobilharzia* Skrjabin et Zakharow, 1920 au Ruanda Urundi. Rev. Zool. Bot. afr. **54**: 147–178 31 figs.

Fain, A. see Baer, J. G.

**Fairbairn**, D. and **Passey**, R. F. The distribution and function of glycogen and trehalose in developing eggs of *Ascaris lumbricoides*. J. Parasit. **42** 4 Sect. 2: 12. [Abstract].

Farr, M. M. and Blankemeyer, V. G. Trichobilharzia brantae n. sp. (Trematoda: Schistosomatidae) from the Canada goose (Branta canadensis L.) J. Parasit. 42: 320-324 1 pl.

Farrow, G. W. see Bueding, E.

Faust, E. C. see Schacher, J. F.

**Fauvel,** P. Fauna of India. Annelida. Polychaeta. Allahabad (Indian Press Ltd.) 1953, pp. xii + 507 + iii, 1 map, 250 figs.

Fedorov, V. G. Studies of the influence of oxygen, low temperature and chloramine on the development and vitality of *Diphyllobothrium latum L* (Cestoidea). Zool. Zh. **35** No. 5: 652–656 fig. [Russian, with English summary p. 4].

Fenwick, D. W. (1). The hatching of cyst-forming nematodes. Rep. Rothamst, exp. Sta. 1955 1956: 202–209.

Fenwick, D. W. (2). The production of sterile viable larvae of the potato root eelworm, *Heterodera rosto-chiensis*. Nematologica 1: 331-336 l fig.

Fernando, C. H. see Kulasiri, C.

**Fielding,** M. J. Tylenchorhynchus martini, a new nematode species found in the sugarcane and rice fields of Louisiana and Texas. Proc. helminth. Soc. Wash. **23**: 47–48 fig.

Filipjev, I. N. Ein neuer saitenwurm (*Parachordodes barabashi*, sp. n.) von der insel Mednyj (Komandoren). Zool. Zh. **35** No. 12: 1906–1097 2 figs. [Russian, with English summary, p. 13].

Fischthal, J. H. A new digenetic trematode from the muskellunge, Esox m. masquinongy. J. Parasit. 42 4 Sect. 2:37. [Abstract].

Fitzgerald, N. see McCarthy, D. D.

Flores-Barroeta, L. Helmintos de los perros Canis familiaris y gatos Felis catus en la Ciudad de Méscio. An. Esc. nac. Cienc. biol. Mex. 8 1955: 159-202. [English summary].

Fonseca, F., Fraga de Azevedo, J. and Marques da Gama, M. Nouveaux cas humains de fasciolase hépatique au Portugal. Ann. Parasit. hum. comp. 31: 14-22 1 fig., 1 table.

Forsman, B. Notes on the invertebrate fauna of the Baltic. Ark. Zool. 9: 389–419 2 figs., 5 tables.

Forster, A. R. The development of Heterodera rostochiensis and Meloidogyne incognita in cross-grafted solanaceous plants with different susceptibilities. Nematologica 1: 283–289.

Fort, M. see Schwetz, J.

Fraga de Azevedo, J. see Fonseca,

Franco, A. A ancilostomiase em Santiago. An. Inst. Med. trop., Lisbon 12 1955; 633-651.

Frankland, H. M. T. The effect of light on the emergence of *Cercaria pygocytophora*, a furcocercaria from *Planorbis carinatus*. J. Helminth. 30: 33-40.

Franz, H. Zum Gedenken au Prof. Dr. Josef Meixner, Verh. zool.-bot. Ges. Wien 95 1955: 5–8.

Fraser, J. H. The Chaetognatha and other zooplankton of the Scottish area and their value as biological indicators of hydrographical conditions. Mar. Res. 1952 No. 2: 1–52, 3 pls.

Freeman, R. S. Life-history studies on *Taenia mustelae* Gmelin, 1790 and the taxonomy of certain taenioid cestodes from Mustelidae. Canad. J. Zool. **34**: 219–242 3 figs., 1 pl.

Freitas Fernandes, B. de see Molfi, A.

Frenzen, K. Beitrag zur Morphologie and Synonymie von Ascaridia galli Schrank 1788. II. Mitteilung. Zool. Anz. 156: 55-651 14 figs.

Frick, L. P., Lin, S. S. and Williams, J. E. Efficacy of Abbott's insect repellent cream (F4856) in preventing Schistosoma japonicum infections in mice. J. Parasit. 42: 528–530.

Friedrich, H. (1). Mitteilungen über neue und wenig bekannte Polychaeten aus Mittel- und Südamerika. Senckenbergiana Biol. 37: 57–68 7 figs.

Friedrich, H. (2). Zur Morphologie des Vorderdarmes der monostiliferen Hoplonemertinen. Veröff. Inst. Meeresf. Bremerhaven 4: 45–53 2 pls.

Frizzi, G. Un primo contributo allo studio del ciclo della Dirofilaria immitis in Anopheles maculipennis atroparvus. Boll. Zool. 21 1954: 395-400.

Frye, W. W. see Swartzwelder, C.

Furmaga, S. (1). Plagiorchis stefánskii sp. n. and Plagiorchis raabei sp. n. parasites of field rodents (Rodentia). Acta Parasit. polon. 4: 583–600 4 figs.

Furmaga, S. (2). The helminth fauna of noxious field rodents and of

their exterminators (predatory birds). Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 237–238. [In Polish].

Furnestin, M.-L. (1). Chaetognathes recueillis par l'Elie Monnier au large des Côtes du Sénégal. Bull. Inst. franç. Afr. No. 18A: 406-409 2 figs.

**Furnestin,** M. L. Chaetognathes de la Baie de Tanger et de l'entrée occidentale du Détroit. Rapp. Comm. int. Mer Médit. **13**: 213–217.

**Fyfe,** M. L. The classification and reproductive organs of New Zealand land planarians. Part IV. Trans. roy. Soc N.Z. **83**: 505–514 5 figs.

Gaillard, J. M. see Arvy, L.

**Gallagher**, J. J. Collection methods for benthic rotifers. Proc. Pa. Acad. Sci. **30**: 247–250.

**Gallati,** W. W. Fibrosarcoma associated with the cysticercus of *Taenia taeniaeformis* in the liver of a muskrat. Ohio J. Sci. **56**: 71–75 4 figs.

Gallicchio, V. see Kruidenier, F. J.

**Ganapati,** S. V. The limnology of two minor irrigation reservoirs near Madras. I. The Errakuppan reservoir. Hydrobiologia **8**: 365–380.

Ganapati, P. N. and Rao, K. H. (1). On the occurrence of Metacercariae cysts of a Diplostome (Trematoda) in fresh-water fishes. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 285–286. [Abstract].

Ganapati, P. N. and Rao, K. H. (2). On Bothriocephalus indicus sp. nov. (Cestoda) from the gut of the marine fish, Laurida tumbil (Bloch). J. Zool. Soc. India 7: 177–181 2 figs.

Gandara, A. F. see Cambournac, F. J. C.

Garkavi, B. L. The distribution and natural formation of foci of the Streptocarosis in ducks. Zool. Zh. 35 No. 3: 376-378.

**Gates,** G. E. (1). On regeneration by earthworms of a species of the Lumbricid genus *Dendrobaena* Eisen 1874. Breviora No. 61: 1–6.

Gates, G. E. (2). Notes on American earthworms. of the family Lumbricidae III–VII. Bull. Mus. comp. Zool. Harv. 115: 1–46.

Gates, G. E. (3). Reproductive organ polymorphism in earthworms of the Oriental megascolecine genus *Pheretima* Kinberg 1867. Evolution 10: 213–227 1 fig.

Gates, G. E. (4). On another lumbricid earthworm with "Relictus" characteristics and the disposition of Southern's species. Ann. Mag. nat. Hist. (12) 9: 369–373.

Gates, G. E. (5). On the origin of the biclitellate condition in lumbricid earthworms, Ann. Mag. nat. Hist. (12) 9:577-581.

Gausen, P. S. van. Les cellules chloragogènes des lombriciens. Bull. biol. **90**: 335–356 3 pls., 10 figs.

Gavaudon, P. and Michon, J. L'action excitante du benzène sur le Lumbricien Allolobophora terrestris Sav. f. longa. C.R. Soc. Biol. Paris 149 1955: 1358–1360.

Gay, R. Régénération chez l'annélide Saccocirrus papillocercus (Bobr). C.R. Acad. Sci. Paris 242: 2483-2485.

Georgévitch, J. Branchiobdellides de Yougoslavie. Ghlas srpok. Akad. Nauk 222 6d. Prirod. Mat. Nauk No. 8 10: 47–76 35 figs. [English summary].

Gerlach, S. A. (1). Brasilianische Meeres- Nematoden. I. (Ergebnisse eines Studienaufenthaltes an der Universität São Paulo). Bol. Inst. oceanogr. S. Paulo 5 1954: 3–70 18 pls.

Gerlach, S. A. (2). Die Nematodenbesiedlung des Sandstrandes und des Küstengrundwassers an der italienischen Küste. II. Okologischer Teil. Arch. Zool. (ital.) Napoli 40 1955: 275–279.

Gerlach, S. A. (3). Neue nematoden aus dem Küstengrundwasser des Golfes de Gascogne (Biskaya). Vie et Milieu 6 1955 : 426–434 5 figs.

Gerlach, S. A. (4). Diagnosen neuer Nematoden aus der Kieler Bucht. Kieler Meeresforsch. 12: 85–109, 10 pls.

Gerlach, S. A. (5). Über einen aberranten Vertreter der Kinorhynchen aus dem Küstengrundwasser. Kieler Meeresforsch. 12: 120–124, 3 pls.

Gerlach, S. A. (6). Die Nematodenbesiedlung des tropischen Bran-

dungsstrandes von Pernambuco. Brasilianische Meeres-Nematoden II. Kieler Meeresforsch. 12: 202–218 5 pls.

Geyer, O. F. Über zwei Funde von bewachsenem Treibhole aus dem Schwäbischen Jura. Jh. Ver. vaterl. Naturk. Württemb. III: 104–107 5 figs.

Ghirardelli, E. Studi sul determinante germinale (d.g.) nei Chetognati: Effetti della Centrifugazione delle uova e azione del Li C I ed Na. SCN. R.C. Accad. Lincei. (8) 19: 498–502.

Gideon, P. W., Menon, P. K. B., Rao, S. R. V. and Jose, K. V. Occurrence of the echiuroid worm *Ikedella misakiensis* (Ikeda) in Indian waters (Gulf of Kutch). J. Bombay nat. Hist. Soc. 54: 201–202 fig.

Gillard, A. Rotateurs des mares de Chertal. Bull. Inst. Sci. nat. Belg. 31 46 1955: 1–22 4 figs.

Gillard, A. and Brande, J. van den. Influence de la lumière sur le développement du nématode des racines, *Meloidogyne* sp. Nematologica 1: 184–188.

Gilmore, R. E. see Allen, R. W.

Ginezinskaya, T. A. On the parasites of the goose in Leningrad region. Trav. Soc. Nat. St. Petersb. (Léningr.) 69 1947: 22–30. [English summary].

Giroud, P. and Jadin, J. L'importance du biotope est démonstrée pour les poissons et leurs parasites par le comportement de captures faites dans un lac, à proximité d'un abattoir. C.R. Acad. Sci. Paris 243: 686-688.

Gismann, A. see Azim, M. A.

Głuszkowska, A. The helminths of the cats in the city of Łódz. Acta Parasit. polon. 3 1955: 261–268. [English summary].

Goffart, H. (1). Nematodenforschung und Pflanzenquarantäne. Nematologica 1: 5–12. [Discussion pp. 12–13].

Goffart, H. (2). Ueber Nematodensukzessionen bei Zucker- und Futter-rüben. Nematologica 1: 349–352 3 figs.

Goheen, A. C. and Braun, A. J. Some parasitic nematodes associated

with wild strawberry plants in woodlands in Maryland. Plant Dis. Rep. 40:43.

Goldberg, A. and Rubin, R. Survival on pasture of larvae of gastrointestinal nematodes of cattle. Proc. helminth. Soc. Wash. 23: 65-68 2 tables.

Goldberg, E. and Nolf, L. D. Observations on the cytochrome system in *Trichinella spiralis*. J. Parasit. 42 4 Sect. 2:16. [Abstract].

Golden, A. M. and Taylor, A. L. Rotylenchus christiei, n. sp., a new spiral nematode species associated with roots of turf. Proc. helminth. Soc. Wash. 23: 109–112 1 fig.

Golvan, Y. J. (1). Acanthocephales d'Oiseaux: Quatrieme note. Consideration sur le genre Pseudoporrorchis Ch. Joyeux et J. G. Baer 1935 (Polymorphidae, Porrorchinae) et redescription de Pseudoporrorchis centropi (A. Porta 1910). Bull. Soc. zool. Fr. 81: 62–71, 8 figs.

Golvan, Y. J. (2) Acanthocéphales d'oiseaux. Première note. Description d'Arhythmorhynchus longicollis (Villot 1875) et révision du genre Arhythmorhynchus Lühe 1911 (Acanthocephala). Ann. Parasit. hum. comp. 31: 199–224 3 pls.

Golvan, Y. J. (3). Une espèce et une variéte nouvelles d'acanthocéphales parasites des poissons de mer des côtes du Sénégal, et redescription de Serrasentis socialis (Leidy 1851) Van Cleave 1924. Ann. Parasit. hum. comp. 31: 225–241 2 pls.

Golvan, Y. J. (4). Le rétractilite des microfilaires sanguicoles dans les gouttes épaisses, ses modalites et sa valeur diagnostique. Ann. Parasit. hum. comp. 31: 139–146 1 fig., 1 plate.

Golvan, Y. J. (5). Acanthocéphales d'oisèaux. Troisième note. Révision des espèces européennes de la sousfamille des Plagiorhynchinae A. Meyer 1931 (Polymorphidae). Ann. Parasit. hum. comp. 31: 350–384 4 pls.

Golvan, Y. J. (6). Acanthocéphales d'amazonie. Redescription d'Oligacanthorhynchus iheringi Travassos 1916 et description de Neoechinorhynchus buttnerae n. sp. (NeoacanthocephalaNeoechinorhynchidae). Ann. Parasit. hum. comp. 31: 500-524 15 figs.

Golvan, Y. J. (7). Parasites de poissons de mer ouest-africains récoltés par J. Cadenat. VIII. Acanthocéphales. Bull. Inst. franç. Afr. No. 18A: 467–484 3 pls., 14 figs.

Golvan, Y. (8). Le genre Centrorhynchus Lühe 1911 (Acanthocephala-Polymorphidae). Révision des espèces européennes et description d'une nouvelle espèce africaine parasite de Rapace diurne. Bull. Inst. franç. Afr. No. 18A: 732–791 6 pls., 11 figs.

Golvan, Y. see Chabaud, A. G. Golvan, Y. J. see Dollfus, R. P.

Gomes, F. C. and Xavier, A. S. Centro de Estudos de Medicina Tropical do Instituto de Alta Cultura. A propósito de um novo caso de Fascioliase hepatica humana: ensaio sobre a téonica de fixação do complements para diagnóstics serológico. An. Inst. Med. trop. Lisboa 13: 901–910. [English summary].

Gonse, P. H. (1). Recherches sur la physiologie de l'ovogenèse chez *Phascolosoma vulgare*. Exp. Cell Res. **8** 1955 : 550-553 4 figs.

Gonse, P. H. (2). L'ovogenese chez *Phascolosoma vulgare*. I. Definition cytologique des stades de croissance des ovocytes. Acta zool., Stockh. 37: 193–224.

Gonse, P. H. (3). L'ovogenese chez *Phascolosoma vulgare* II. Recherches biometriques sur les ovocytes. Acta zool., Stockh. 37: 225–233 5 figs.

Gontcharoff, M. Inventaire de la faune marine de Roscoff. Nemertes. Trav. Sta. biol. Roscoff N.S. 6 Suppl. 7 1955: 1–15.

Goodchild, C. G. Transfaunation of Schistosomatium douthitti. J. Parasit. 42 4 Sect. 2: 27–28. [Abstract].

Goodey, J. B. (1) The susceptibility of potato varieties to infestation by the eelworms *Ditylenchus destructor* and *D. dipsaci*. Ann. appl. Biol. 44: 16-24.

Goodey, J. B. (2). Observations on species of the genus *Iotonchium* Cobb. Nematologica 1: 239–248.

Goodey, J. B. and Brown, E. B. Stem eelworm attacking carrots. J. Helminth. 29: 187–192 2 tables.

Goodey, J. B. see Moreton, B. D.

Goodey, T. The nematode parasites of plants catalogued under their hosts. Revised edition. Farnham Royal (Commonwealth Agric. Bureaux), pp. 140.

Goodnight, C. J. see Kamemoto, F. I.

**Gordon,** H. McL. Fascioliasis, with particular reference to acute fluke disease. Austral. Vet. J. **31** 1955; 46–47.

**Gorlenko,** M. V. Predatory fungi and their utilization in nematode control. Nematologica 1:147-150.

Govaert, J. Quelques remarques sur la fecondation et la maturation de l'oeuf de Fasciola hepatica. Biol. Jaarb. 23: 140-144 4 figs.

**Graaf,** F. de. Studies on Rotatoria and Rhizopoda from the Netherlands. I. Rotatoria and Rhizopoda from the "Grote Huisven." Biol. Jaarb. 23: 145–217.

**Grabda,** B. Frog parasites at Goldapiwo Lake. Wiad. parazyt. Warszawa **2** 5 Suppl.: 211–212. [English summary].

**Grainger**, J. (1). Progress in soil mixing for nematode control. Nematologica I: 31–4 6 7 figs. [Discussion p. 46].

**Grainger**, J. (2). The control of *Ditylenchus dipsaci* on oats. Nematologica 1: 277–282 l pl.

**Grant**, W. C., Jr. (1). Studies on moisture relationships in earthworms. Ecology **36** 1955: 400–407 3 figs.

**Grant**, W. C., Jr. (2). Temperature relationships in the megascolecid earthworm *Pheretima hupeiensis*. Ecology **36** 1955: 412–417 3 figs.

**Grant,** W. C., Jr. (3). An ecological study of the peregrine earthworm *Pheretima hupeiensis* in the Eastern United States. Ecology 37: 648–658 5 figs.

Gresson, R. A. R., Threadgold, L. T. and Stinson, N. E. The golgi elements of the neurones of *Helix*, Locusta and Lumbricus. Cellule 58: fasc. 1. 5–16 1 pl.

Grétillat, S. see Chabaud, A. G.

Greven, U. Die Wirkung von Karbolsäure auf den Schlammröhrenwurm Tubifex tubifex. Arch. Hydrobiol. 52: 278–286 l pl.

Groce, N. della. The conditions of sedimentation and their relations with Oligochaeta populations of Lake Maggiore. Mem. Ist. ital. Idrobiol. de Marchi. 8 Suppl. 1955: 39–62 4 figs.

Grocott, R. G., see Caballero y C., E.

**Groschaft,** J. Die Befunde der Oxyuroidea bei einiger Schwabenarten (Blattoidea) vom Laboratorien-Zucht. Čsk. Parasit. 3: 67–74 4 figs. [German summary].

**Grundmann**, A. W. A new tapeworm, *Mesocestoides carnivoricolus*, from carnivores of the Great Salt Lake Desert region of Utah. Proc. helminth. Soc. Wash. **23**: 26–28 3 figs.

Grzywinski, L. The internal parasites of furred animals on farms in the western territories in Poland. Wiad. parazyt. Warszawa 2 5 Suppl.: 155–156. [English summary].

**Guevara,** D. Accion "in vitro" de ciertos fermentos de origin vegetas sobre nematodes parasitos. Rev. ibér. Parasit. **16**: 297–314.

**Guild,** W. J. McL. Earthworms and soil structure. Soil Zoology, London, 1955: 83–98.

Gunewardene, K. Observations on the development of *Dirofilaria repens* in *Aedes (Stegomyia) albopictus* and other common mosquitos of Ceylon. Ceylon J. Med. Sci. **9**: 45–50 3 pls.

Gunhold, P. and Pschorn-Walcher, H. Untersuchungen über die Mikrofauna von Verlandungs-Steppen- und Waldböden im Neusiedlersee- Gebiet. Wiss. Arb. Burgenland No. 12: 1–24 6 figs.

Gupta, S. P. (1). A redescription of Opisthorchis pedicellata Verma (1927) and a reconsideration of the validity of Opisthorchis pedicellata minuta Mehra (1941). Proc. Indian sci. Congr. Ass. 43rd. 3: 285. [Abstract].

Gupta, S. P. (2). A redescription of Bucephalopsis magnum (Verma 1936) Srivastava, 1938. Proc. Indian sci. Congr. Ass. 43rd. 3:285. [Abstract].

Gupta, S. P. (3). Two new trematodes of the family Allocreadiidae from the fresh water fishes of U.P.

Proc. Indian sci. Congr. Ass. 43rd. 3: 284. [Abstract].

[Gusev, A. V.]. [Monogenetic trematodes of Amur fish]. Trav. Inst. Zool. Acad. Sci. U.S.R.R. 13 1953: 127–136 8 figs. [In Russian].

Guttowa, A. (1). [On the infectivity of onchospheres of *Triaenophorus lucii* (Müll.) and its variability]. Acta Parasit. polon. 3: 447–465. [English summary].

Guttowa, A. (2). Experimental evidence of the main first intermediate host of broad tapeworm—Diphyllobothrium latum (L.)—in the area of Poland. Acta Parasit. polon. 4: 781–802. [English summary].

Guttowa, A. (3). An attempt experimentally to establish the first main intermediate host of *Diphyllobothrium latum* (L.) for the territory of Poland. Wiad. parazyt. Warszawa 2 5 Suppl.: 217–218. [English summary].

Haakh, U. see Sprehn, C.

Habermann, R. T., Williams, F. P., Jr. The effect of antibiotics, phenothiazine, sodium fluoride, and the combined action of these drugs, in the removal of oxyurids from mice. Proc. helminth. Soc. Washington 23: 36–39 1 table.

Hacig, A. see Nițulescu, N.

Hacig, A. see Sorescu, A.

Hackey, J. R. see Stirewalt, M. A.

Hadži, J. Kritische Bemerkungen zu Remane's und einiger anderen autoren Ansichten über Phylogenie der Tiere vom Standpunkte der Turbellariantheorie der Knidarian. Razpr. Akad. Ljubljana (4) 1955: 125–174. [German summary].

Hall, J. E. and Sonnenberg, B. An apparent case of human infection with the whip-worm of dogs, *Trichuris vulpis* (Froelich, 1789). J. Parasit. 42: 197–199.

Hamelin, E. Les rotifères du canal de Caen a la mer le problème de leur origine. Arch. Zool. exp. gén. Notes et Rev. 93: 142–167.

Hankes, L. V. and Stoner, R. D. In vitro metabolism of DL-alanine-2-C-14 and glycine-2-C-14 by Trichinella spiralis larvae. Proc. Soc. exp. Biol. Med. 91: 443–446.

Hannerz, L. Larval development of the polychaete families Spionidae Sars, Disomidae Mesnil, and Poecilochaetidae n. fam. in the Gullmar Fjord (Sweden). Zool. Bidr. Uppsala 31: 1–204 57 figs.

Hansen, E. L. see Dougherty, E. C.

Hansen, M. F. and Shivnani, G. A. Comparative morphology of infective nematode larvae of Kansas beef cattle and its use in estimating incidence of nematodiasis in cattle. Trans. Amer. micr. Soc. 75: 91–102 23 figs.

Hansen, M. F., Terhaar, C. J. and Turner, D. S. Importance of the egg shell of *Ascaridia galli* to the infectivity of its larva. J. Parasit. 42: 122-125.

Hanson, H. C. A three-year survey of *Ornithofilaria* sp. microfilariae in Canada geese. J. Parasit. **42**: 543.

Hanson, L. E. see Levine, N. D.

Hargis, W. J., Jr. (1). Monogenetic trematodes of Gulf of Mexico fishes. Part VIII. The superfamily Diclidophoroidea Price, 1936 (Continued). Proc. helminth. Soc. Wash. 23:5-13 19 figs.

Hargis, W. J., Jr. (2). Monogenetic trematodes of Gulf of Mexico fishes. Part X. The family Microcotylidae Taschenberg, 1879. Trans. Amer. micr. Soc. 75: 436–453 25 figs.

Hargis, W. J., Jr. (3). Monogenetic trematodes of Gulf of Mexico fishes. Part XI. The family Microcotylidae Taschenberg 1879. (Continued). Proc. helminth. Soc. Wash. 23: 153–162 14 figs.

Hargis, W. J., Jr. (4). Monogenetic trematodes of Gulf of Mexico fishes. Part XII. The family Gastrocotylidae Price, 1943. Bull. Mar. Sci. Gulf and Caribbean 6: 28–43 26 figs.

**Harman,** W. J. Earthworms of commercial importance and their effect on distribution. Proc. La Acad. Sci. **18** 1955: 54–57.

Harman, W. J. and Corliss, J. O. Isolation of earthworm setae by use of histophagous Protozoa. Trans. Amer. micr. Soc. 75: 332–333.

Harnisch, O. Reduktionsorte im Körper von *Tubifex tubifex* nach Fürbungen mit Triphenyltetrazoliumchlorid. Naturwissenschaften **43**: 359. **Hartman**, O. Polychaetous annelids erected by Treadwell, 1891 to 1948, together with a brief chronology. Bull. Amer. Mus. Nat. Hist. **109**: 239–310 l pl.

Hartmann-Schröder, G. Polychaeten-Studien I. 1. Plakosyllis brevipes eine neue Syllide aus dem Mittelmeer. 2. Pionosyllis subterranea eine neue Grundwasser-Syllide aus dem Mittelmeerraum. Zool. Anz. 157: 87–91 9 text.-figs.

Hartmann-Schröder, G. (2). Polychaeten-Studien II. Zur larvalent-wicklung der Opheliiden (Polychaeta). Zool. Anz. 157: 92–101 21 text.-figs.

Hartwich, G. Südamerikanische Acanthocephalen aus der Zoologischen Sammlung des Bayerischen Staates. Zool. Anz. 156: 299–308, 2 figs.

Harvey, L. A. and Channon, C. E. On *Corrigia (Orthorchis) vitta* (Duj. 1845). Parasitology **46**: 101-106, 1 fig.

**Hase,** A. Über Freilandversuche mit dem Kompostwurm *Eisenia foetida* Sav. Z. angew. Zool. **43**: 493–508.

Hattingen, R. (1). Beiträge zur Entwicklungsgeschichte von *Sphærularia bombi* Dufour 1837. Roux Arch. Entw. Mech. Org. **148**: 494–503, 8 figs.

Hattingen, R. (2). Beiträge zur Biologie von *Sphaerularia bombi* Léon Dufour (1837). Zbl. Bakt. Abt. II 109: 236–249 13 figs.

Hauer, J. (1). Der nordamerikanische Strudelwurm Euplanaria tigrina (Girard) am Oberrhein. Beitr. naturk. Forsch. Sudw. Dtsch. 9 1950: 70–75 1 fig.

Hauer, J. (2). Rädertiere aus dem Naturschutzgebiet "Wutachtal." Beitr. naturk. Forsch. Sudw. Dtsch. 11 1952: 45–53 14 figs.

**Hauer**, J. (3). Ein neuer *Brachionus* (Rotatoria) aus Venezuela. Beitr. naturk. Forsch. Sudw. Dtsch. **15** 1956: 63–64 1 fig.

Hauer, J. (4). Rotatorien aus Venezuela und Kolumbien. Ergeb. Dtschn. Limnol. Venezuela-Exped. 1952 Berlin 1 1956: 277–314 24 figs.

Hauenschild, C. Hormonale Hemmung der Geschlechtsreife und Meta-

morphose bei dem Polychaeten Platynereis Dumerilii. Z. Naturf. 11B: 125–132 3 figs.

Hauser, P. J. (1). Histologische Umbauvorgänge im Planariendarm bei der Nahrungsaufnahme. Mikroskopie 11: 20–31 14 figs. [English summary].

Hauser, J. (2). Beiträge zur Turbellarienhistologie: Untersuchungen über die histologische Struktur des Trikladenpharynx. Rev. brasil. Biol. 16: 37–58 10 figs.

**Haut,** H. van. Das Champignon-Myzel als Indikator für die Wirkung saprober Nematoden in Komposten. Nematologica 1: 165–173 3 figs., 4 pls.

Havlik, O. Neue Saitenwürmer der Tschekoslowakei (Gordioiden Nematomorpha). Čsl. parasit. 1 1954: 85–95 4 figs. [German summary].

Headlee, W. H. The incidence of pinworm infection among Indiana children with comments on methods of laboratory diagnosis. Proc. Ind. Acad. Sci. 61 1952: 286–288.

Headlee, W. H., Vajrasthira, S. and Maiphoom, C. Data on the incidence of pinworm infection in Thailand. J. Parasit. 42 4 Sect. 2:13. [Abstract].

Hedley, R. H. Studies of serpulid tube formation. I. The secretion of the calcareous and organic components of the tube by *Pomatoceros triqueter*. II. The calcium-secreting glands in the peristomium of *Spirorbis*, *Hydroides*, and *Serpula*. Quart. J. micr. Sci. 97: 411–427 5 figs.

Hedrick, R. M. The distribution of succinic dehydrogenase activity in *Hymenolepis diminuta* and *Raillietina cesticillus*. J. Parasit. **42** 4 Sect. 2: 34. [Abstract].

**Heilbrunn,** L. V. The ageing of *Chaetopterus* eggs. Protoplasma **46**: 317–321.

**Heilbrunn**, L. V. and **Wilson**, W. L. The action of fatigue substances of cell division. Pubbl. Staz. zool. Napoli **27** 1955: 295–299.

Heimlich, C. R. see Melvin, D. M. Heimlich, R. see Sadun, E. H.

Heindl-Mengert, H. Die Nematodenfauna im Schleimfluss lebender

Laubbaüme. S. B. phy.-med. Soz. Erlangen 77: 158–176 3 figs.

Heintz, E. Actions attractives et répulsives spécifiques de broyats et de substances extraites de broyats chez Apis mellifica et Tubifex tubifex. C.R. Soc. Biol., Paris 149: 2224–2227 2 figs.

Hemphill, E. C. see Atchley, F. O.

Hendricks, J. R. and Cort, W. W. A study of the *in vitro* actions of antiserums on the cercariae of certain bird schistosomes. J. Parasit. **42**: 557–564 l pl.

Henke, G. (1). Über Photokinese bei Planarien. Untersuchungen an geteilten Tieren. Naturwissenschaften 43: 137.

Henke, G. (2). Photokinese einiger Brack- und Süsswasserplanarien bei Einwirkung von Licht verschiedener Wellenlängen. Naturwissenschaften 43: 231.

**Herber,** E. C. Life history studies on *Notocotylus urbanensis* (Trematoda: Notocotylinae). Proc. Pa. Acad. Sci. **25** 1955: 267–275 1 pl.

**Herlant-Meewis,** H. Croissance et neurosécrétion chez *Eisenia foetida* (Sav.). Ann. Sci. nat. (Zool.) (11) **18**: 185–198, 3 figs.

**Herlich,** H. (1). Observations on age resistance of cattle to parasitic nematodes. J. Parasit. **42** 4 Sect. 2: 15. [Abstract].

Herlich, H. (2). A digestion method for post-mortem recovery of nematodes from ruminants. Proc. helminth. Soc. Wash. 23: 102–103 1 table.

Herlich, H., Douvres, F. W. and Isenstein, R. S. Experimental infections of guinea pigs with *Trichostrongylus colubriformis*, a parasite of ruminants. Proc. helminth. Soc. Wash. 23: 104–105 l table.

Herman, C. M. see Wehr, E. E.

**Hesling,** J. J. Some observations on *Heterodera major*. Nematologica 1: 56-63, 3 figs.

Hewitt, R. I. see Wallace, W. S.

Heyneman, D. and Welsh, J. F. In vitro study of Hymenolepis nana rabbit serum against eggs, cysticercoids and adult stages of that parasite. J. Parasit. 42 4 Sect. 2:31. [Abstract].

**Hickman,** V. V. Parasite Turbellaria from Tasmanian Echinoidea. Pap. roy. Soc. Tasm. **90**: 169–181 9 figs.

Hidalgo, E. see Caballero y C., E.

**Hill,** R. D. Mass therapy with piperazine adipate in the control of threadworm infestations. Brit. med. J. No. 5002: 1156–1159.

Hiregaudar, L. S. see Rao, S. R.

Hirschmann, H. Comparative morphological studies on the soybean cyst nematode, Heterodera glycines and the clover cyst nematode, H. trifolii (Nematoda: Heteroderidae). Proc. helminth. Soc. Wash. 23: 140–151 9 figs., 6 tables.

Hobson, G. E. and Rees, K. R. The annelid phosphagens. Biochem J. 61 1955: 549–552.

**Hoefke,** R. Mikroskopische Studien am Regenwurm. Mikrokosmos **45**: 196–202 figs.

**Hoeppli,** R. The knowledge of parasites and parasitic infections from ancient times to the 17th century. Exp. Parasit. 5: 398–419.

Hoeppli, R. and Ch'iang, I. H. (1). Parasites as remedies in old-style Chinese and western medicine. Peking nat. Hist. Bull. 20: 1952; 125–162.

Hoeppli, R. and Ch'iang, I. H. (2). Similar superstitions concerning parasites in old-style Chinese and early western medicine. Peking nat. Hist. Bull. 20 1952: 209–219.

Hoeppli, R. and Ch'iang, I. H. (3). The rôle of imaginary and pseudoparasites in old-style Chinese and Western Medicine. Peking nat. Hist. Bull. 20 1952: 221–262 4 pls.

Hoffmann, G. L. (1). Notes on the life history of Bunodera eucaliae Miller (Trematoda, Allocreadiidae) of the stickleback, Eucalia inconstans. Proc. Iowa Acad. Sci. 62 1955: 638–639.

Hoffmann, G. L. (2). The lifecycle of *Crassiphiala bulboglossa* (Trematoda: Strigeida). Development of the metacercaria and cyst, and effect on the fish hosts. J. Parasit. 42: 435–444 14 figs.

Hoffmann, J. (1). L'acanthocéphalose des truites de la Syre [Quelques contribution à l'étude des spécificités

de l'*Echinorhynchus truttae* Schrank (Lühe 1911)]. Arch, Inst. Gr.-Duc, Luxemb. N.S. **21** 1954 : 81–98 4 figs.

Hoffmann, J. (2). Note sur *Phreoryctes gordioides* G. L. Hartmann. Arch. Inst. Gr. - Duc. Luxemb. N.S. 23: 145-150 3 figs.

Hohner, L. Cysticercus talpae und Cysticercus taeniaeformis beim Sumpfbiber. Vorläufige Mitteilung. Arch. Exp. Vet-med. 8 1954: 512–516.

Holliman, R. B. see Leigh, W. H.

Holt, P. C. and Whittaker, W. A. Notes on the Branchiobdellidae of South Indian Creek, Unicoi County, Tennessee. J. Tenn. Acad. Sci. 30 2 1955: 132–133.

Honess, R. F. and Winter, K. B. Diseases of wildlife in Wyoming. Bull. Wyoming Fish. Comm. 9 1–279 115 figs.

Hopkins, C. A. see Bell, E. J.

Hopkins, S. H. Two new trematodes from Louisiana, and the excretory system of Bucephalidae. Trans. Amer. micr. Soc. 75: 129–135 1 pl.

Hörning, B. and Rosenfeld, V. Massenbefell eines Igels (Erinaceus europaeus) mit Brachylaemus helicis (Meckel 1846) (Trematoda: Brachylaemidae). Z. angew. Zool. 43: 425–433 figs 1–8.

Hoshina, T. and Sugiura, Y. On a skin disease and a nematode parasite of a dolphin, *Tursiops truncatus* (Montagu, 1821). Sci. Rep. Whales Res. Inst. Tokyo 11: 133–138 pl. 1, 2.

Hsü, S. Y. Li and Hsü, H. F. On the sexual abnormalities in the male *Schistosoma japonicum*. J. Parasit. **42** 4 Sect. 2: 27 [Abstract].

Hsu, W. S. (1). Oogenesis in *Habrotrocha tridens* (Milne). Biol. Bull. Woods Hole 111: 364–374 4 pls.

**Hsu,** W. S. (2). Oogenesis in the Bdelloidea rotifer *Philodina roseola* Ehrenberg. Cellule **59**: 281–296, 3 pls.

Hubl, H. Über die Beziehungen der Neurosekretion zum Regenerationsgeschehen bei Lumbriciden nebst Beschreibung eines neuartigen neurosekretorischen Zelltyps im Unterschlundganglion, Roux Arch. Entw. Mech. Organ. 149: 73–87 8 figs.

Hucker, A. G. and Schofield, F. D. Whipworm infections. Trial of four piperazine compounds. Brit. Med. J. No. 5002: 1159–1160.

Huff, C. G. Parasitism and Parasitology. J. Parasit. 42: 1-10.

Hugghins, E. J. (1). An ecological study on *Hysteromorpha triloba* (Trematoda: Strigcida) at Oakwood Lakes, South Dakota. J. Parasit. **42** 4 Sect. 2: 26. [Abstract].

Hugghins, E. J. (2). Further studies on Hysteromorpha triloba (Trematoda: Strigeida), and some parasites of a white pelican. J. Parasit. 42 4 Sect. 2: 26. [Abstract].

Hugghins, E. J. (3). Ecological studies on a trematode of bullheads and cormorants at Spring Lake, Illinois. Trans. Amer. micr. Soc. 75: 281–289 2 pls.

Huijsman, C. A. Breeding for resistance to the potato root eelworm in the Netherlands. Nematologica 1: 94–99.

Hunt, D. W. see Atchley, F. O.

Hunter, G. W., III, et al. Immunological studies. I. Experiments with bird and human schistosomes in small mammals. Exper. Parasit. 5: 551–559.

Hunter, W. S. see Vernberg, W. B.

Hure, J. Distribution annuelle verticale du zooplancton sur une station de l'Adriatique meridionale. Acta adriat. 7 7 1955: 1–72 76 figs.

Hussey, K. L. Syphacia muris and its distribution. J. Parasit. 42 4 Sect. 2: 13-14. [Abstract].

Hwang, J. C. and Kates, K. C. Morphological variations in the embryonic hooks of tapeworms. J. Parasit. 42 4 Sect. 2:41. [Abstract].

**Hyman,** L. H. (1). A further study of the polyclad flatworms of the West Indian region. Bull. mar. Sci. Gulf and Caribbean 5 1955: 259–268 8 figs.

**Hyman,** L. H. (2). North American triclad Turbellaria. 15. Three new species. Amer. Mus. Novit. No. 1808: 1–14 17 figs.

**Ingersole**, E. M. In vitro survival of rediae of Cyclocoelum microstomum. Exp. Parasit. 5: 231-237.

Ionescu, N. see Rădulescu, I. Isenstein, R. S. see Herlich, H.

Issidorides, M. Ultrastructure of the synapse in the giant axons of the earthworms. Exp. Cell Res. 11: 423-436 13 figs.

Ito, J. Studies on hatchability of *Schistosoma japonicum* eggs in several external environmental conditions. Jap. J. med. Sci. and Biol. 8 1955: 175–184.

Ito, T. (1). Studies on the "Mizu-kawari" in eel-culture ponds 2. The changes in pH and O<sub>2</sub> in the "Mizu-kawari" by *Brachionus plicatilis* (Rotifer). Rep. Fac. Fish. Univ. Mie 2 1955: 168–177.

Ito, T. (2). Studies on the "Mizukawari" in eel-culture ponds. I. The feeding activity of *Brachionus plicatilis* (Rotifer) on Phytonannoplankton (as a cause of "Mizukawari"). Rep. Fac. Fish. Univ. Mie 2 1955: 162–167.

Iwańczuk, I. The examination of town sewers for the presence of the eggs of human intestinal worms. Wiad. parazyt. Warszawa 2 5 Suppl.: 85–86. [English summaryl.

Iwańczuk, I. and Dozańska, W. The influence of chlorination on the survival of *Ascaris* sp. eggs in sewers. Wiad. parazyt. Warszawa 2 5 Suppl.: 87–88. [English summary].

Iwańczuk, I., Wołowska, H. and Sobkowicz, H. The influence of intestinal invasion upon the nervous system of children. Wiad. parazyt. Warszawa 2 5 Suppl.: 123–124. [English summary].

Iyatomi, K. and Nishizawa, T. Artificial culture of the strawberry nematode, Aphelenchoides fragariae, and the rice white tip nematode Aphelenchoides besseyi. Jap. J. appl. Zool. 19 No. 1 1954: 8–15 1 fig.

Iyengar, R. (1). Développement de Wuchereria bancrofti (Cobbold) et de Wuchereria malayi (Brug.) (Ire partie). Ann. Parasit. hum. comp. 31 99–138 31 figs.

Iyengar, R. (2). Développement de Wuchereria bancrofti (Cobbold) et de Wuchereria malayi (Brug.) (He partie). Ann. Parasit. hum. comp. 31: 266-287 12 figs. Jacobsen, H. J. Eplaálurin, ein nýggj eplasjúka i Föroyum. Fródskaparrit 1 1952: 122–129 3 figs. [English summary].

Jacquemart, S. A propos de deux types de fonds et de leur peuplement animal. Bull. Inst. Sci. nat. Belg. 31 52 1955: 1-18.

Jacquemart, S. see Leloup, E.

Jacquemin, P. and Vincent, G. Nouvelle technique pour la détection des oeufs d'Helminthes dans les poussières souillées. Bull. Soc. Hist. nat. Afr. No. 46 1955: 295–300 figs.

Jadin, J. see Giroud, P.

**Jägersten**, G. On the locomotion and attachment of *Protodrilus*, with remarks on the function of locomotory cilia. Zool. Bidr. Uppsala **30**: 315–320.

Jaiswal, G. On a new species of trematode belonging to the genus *Philophthalmus* Looss, 1899, from the eyes of bird in Hyderabad-Deccan. Proc. Indian sci. Congr. Ass. 42nd. 4 1955: 10. [Abstract].

Jamison, D. G. see Kershaw, W. E.

Janiszewska, J. (1). Rhabdochonoides barbi g. n., sp. n., subfamily Rhabdochonoidinae subfam, n. (fam. Rhabdochonidae Skrjabin), an intestinal parasite in cyprinid fish. Acta Parasit. polon. 3 1955: 233–244 5 figs.

Janiszewska, J. (2). Caryophyllacidae europejskie ze szezególmym uwzgledmeniem Polski. Spraw. wrocl. Tow. nauk. 7:96–97. [Abstract].

Janz, G. J. and Carvalho, A. Morais de. Subsídios para o conhecimento das bilharzioses em Angola. An. Inst. Med. trop., Lisboa 13: 597–613 2 maps. [English summary].

Janzen, G. J. and Tuin, F. van der. The unknown hatching agent for the potato root-eelworm. Nematologica 1: 126–137.

Jarecka, L. Tapeworm larvae at Gołdapiwo Lake. Wiad. parazyt. Warszawa 2 5 Suppl.: 203–204. [English summary].

Järnefelt, H. Zooplankton und Humuswasser. Ann. Acad. Sci. Fenn. 4A 31: 1-4 figs.

Jarry, D. see Caron, J.

Jayewardene, L. G. On a redescription of Foleyella candezi Fraipont, 1882, from Meller's chamaeleon (Chamaeleon melleri), from Nyasaland. J. Helminth. 30: 97–102 10 figs.

**Jeffery,** G. M. Intestinal parasites in a Georgia mental hospital. J. Parasit. **42**: 553–555.

Jelska, A., Kłapkowska, K. and Milewska, D. L'invasion parasitaire des enfants dans les écoles maternelles à Kraków. Acta Parasit. polon. 4: 511–520. [French résumé].

Jenkins, W. R. Paratylenchus projectus, new species (Nematoda, Criconematidae), with a key to the species of Paratylenchus. J. Wash. Acad. Sci. 46: 296–298 1 fig.

Jenkins, W. R. and Taylor, D. P. Paratylenchus dianthus n. sp. (Nematoda, Criconematidae), a parasite of carnation. Proc. helminth. Soc. Wash. 23: 124–127 1 fig.

**Jenkins**, W. R., **Taylor**, D. P. and **Rohde**, R. A. A preliminary report of nematodes found on corn, tobacco, and soybean in Maryland. Plant Dis. Rep. **40**: 37–38.

**Jennings,** J. B. A technique for the detection of *Polystoma integerrimum* in the common frog (*Rana temporaria*). J. Helminth. **30**: 119–120.

**Jeziorańska,** A. Diagnostic value of trichina antigens in trichinellosis. Acta Parasit. polon. **3** 1955: 191–215 3 tables. [English summary].

Jeziorańska, A. and Dobrowolska, H. (1). The immunological reactions in ascaridosis. Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 117–118. [English summary].

Jeziorańska, A. and Dobrowolska, H. (2). A modification of the immunological tests in echinococcosis. Wiad. parazyt. Warszawa 2 5 Suppl. 1956: 119–120. [English summary].

**Jira,** J. Findings of phytonematodes as pseudoparasites in the stool of man and some problems of pseudoparasitism. Čsl. parasit. **2** 1955: 89–94 3 figs. [Czech, with English summary].

Jirovec, O. Parasiten der Rotatorien im Plankton javanischer Seen.

Arch. Hydrobiol. Suppl. **23**: 105–108 2 figs.

John, M. E. see Moreton, B. D.

Johnson, W. H. see Miller, C. A.

Johri, G. N. A new cestode Senga lucknowensis from Mastacembelus armatus Lacep. Curr. Sci. 25: 193-195 3 figs.

**Johri,** L. N. and **Smyth**, J. D. A histochemical approach to the study of helminth morphology. Parasitology **46**: 107–116, 1 pl., 1 fig.

Joly, R. Contribution à la connaissance de la faune planctonique des lacs de Barrage. Le lac du Barrage de la Vaud-Gelade (Creuse). C.R. Ass. franç. Av. Sci. 73 1955: 476-478.

Jones, A. W. The chromosomes of a species of *Halipegus* Looss, 1899 (Digenea: Hemiuridae). J. Tenn. Acad. Sci. 31: 186–187 7 figs.

Jones, A. W. and Ciordia, H. The chromosomes of *Hydatigera taeniae-formis* and *Taenia pisiformis*. J. Parasit. **42**: 207 figs.

Jones, A. W., Kerley, C. and Sneed, K. E. New species and a new subgenus of *Corallabothrium* (Cestoda, Proteocephala) from catfishes on the Mississippi basin. J. Tenn. Acad. Sci. 31: 179–185 4 figs.

**Jones,** F. G. W. (1). A microplot technique for the study of soil populations of cyst-forming root eelworms of the genus *Heterodera*. Soil Zoology, London, 1955: 390–393 6 figs.

**Jones,** F. G. W. (2). Quantitative methods for the estimation of cyst-forming nematodes (*Heterodera* spp.) in soil. Soil Zoology, London, 1955: 394–402 1 fig.

**Jones,** F. G. W. (3). Soil population studies using microplots. Nematologica 1: 109–110.

Jones, F. G. W. (4). Soil populations of beet eelworm (*Heterodera schachtii* Schm.) in relation to cropping. II. Microplot and field plot results. Ann. appl. Biol. 44: 25–56 25 figs.

Jones, F. G. W. and Moriarty, F. (1). Further observations on the effects of peas, beans and vetch upon soil population levels of peat root eelworm, *Heterodera göttingiana* Liebscher. Nematologica 1: 268–273.

Jones, F. G. W. and Moriarty, F. (2). A preliminary experiment on the effect of various cereals on the soil population of cereal root eelworm, *Heterodera major* O. Schmidt. Nematologica 1: 326–330.

**Jones,** F. G. W. see Duddington, C. L.

Jones, M. F. see Weinstein, P. P.

Jones, M. L. Cossura pygodactylata, a new annelid from San Francisco Bay (Polychaeta: Cirratulidae). J. Wash. Acad. Sci. 46: 127–130 1 fig.

Jones, N. S. The fauna and biomass of a muddy sand deposit off Port Erin, Isle of Man. J. Anim. Ecol. 25: 217–252.

Jordan, H. E. and Byrd, E. E. Observations on the genus *Atrophecoecum* Bhalerao, 1940. J. Parasit. **42** 4 Sect. 2: 28–29. [Abstract.]

Jorge, A. R. Contribution à l'étude des Chrysopétaliens. I- Sur la prostomium et les premiers segments chez les genres Chrysopetalum, Heteropale et Bhawania. Rev. Fac. Ciènc. Univ. Lisbon (2C) 4 1954: 159-178 10 figs.

Jose, K. V. see Gideon, P. W.

**Kadziołka,** A. The pathology of experimental ascaridiasis in chickens, caused by *Ascaridia galli* (Schrank, 1788). Wiad. parazyt. Warszawa **2** 5 Suppl.: 137–138.

**Kagan,** I. G. Agar diffusion studies with ascarid antigens. J. Parasit. **42** 4 Sect. 2:11. [Abstract].

Kagan, I. G. and Bargai, U. Studies on the serology of trichinosis with hemagglutination, agar diffusion tests and precipition ring tests. J. Parasit. 42: 237–245 4 figs.

**Kagan,** I. G. and **Levine,** D. M. Studies on the serology of schistosomiasis. II. The *in vitro* activity of cercariae of *Schistosoma mansoni* in sera of normal and antigen-injected animals. Exper. Parasit. **5**: 48–58.

Kalbe, I. Über das Verhalten der Eier von Ascaris lumbricoides L. in verschiedenen Bodenarten bei unterschiedlichen klimatischen Bedingungen. Wiss. Z. Humboldt Univ. Math.-Nat. R. 5:21–27 2 figs. [English summary].

Kamat, D. N. (1). The nature of the intestinal proteinase of the earthworm, *Pheretima elongata* (Steph.). J. Anim. Morph. Physiol. **2** 1955: 79–86, 5 figs.

Kamat, D. N. (2). The structure of the Golgi elements and mitochondria in earthworms and lamellibranchs. Proc. Indian Acad. Sci. 44B: 91–107 2 pls., 3 figs.

Kamemoto, F. I. and Goodnight, C. J. The effects of various concentrations of ions on the asexual reproduction of the oligochaete *Aeolosoma hemprichi*. Trans. Amer. micr. Soc. **75**: 219–228 8 figs.

Kämpfe, L. Zur Verwendbarkeit von Chrysoidin als Vitalkriterium für Larven des Rüben- und Kartoffelnematoden. Wiss, Z. Univ. Halle. Math.-Nat. R. 5: 465–478 4 figs.

Kantor, S. see Levine, N. D.

**Kao**, C. Y. Basis for after-discharge in the median giant axon of the earthworm. Science **123**: 803 1 fig.

**Karl,** J. E. Jr. The rate of loss of *Trichinella spiralis* larvae placed in mice. Proc. Indiana Acad. Sci. **65**: 228.

Karlewiczowa, R. (1). Attempts to establish the intensity of *Trichuris trichiura* invasion. Wiad. parazyt. Warzawa 2 5 Suppl.: 83–84.

Karlewiczowa, R. (2). [A contribution to the helminths of the alimentary tract of *Citellus sustica* Gueldenstaedt.] Wiad. parazyt. Warszawa 2 5 Suppl.: 231–232. [In Polish.]

Karling, T. G. (1). Morphologischhistologische Untersuchungen an den männlichen Atrialorganen der Kalyptorhynchia (Turbellaria). Ark. Zool. 9: 187–279.

Karling, T. G. (2). Zur Kenntnis einiger Gnathorhynchiden nebst Beschreibung einer neuen Gattung. Ark. Zool. 9: 343–353, 20 text figs.

**Kartman,** L. The vector of canine filariasis. J. Parasit. **42** 4 Sect. 2: 19. [Abstract.]

Kašták, V. (1). Echinorhynchus salmonis Müller 1792 (Acanthocephala), ein neuer Parasit der Fische für das Gebiet der ČSR. Biológica, Bratislava 10 1955; 76–79 2 figs. [German summary.]

Kašták, V. (2). Entdeckung der Fischparasiten, der Trematode *Crepidostomum farionis* Müller, 1784 in der Slowakei. Biológica, Bratislava 10 1955: 224–227 l fig. [German summary.]

Kašták, V. (3). Ein neuer Saugwurm des Geschlechtes *Dactylogyrus* Diesing, 1850. Biológica, Bratislava 10 1955: 324–327 2 figs. [German summary.]

Kašták, V. (4). Dactylogyrus minutus Kulwiec, 1927 und Dactylogyrus phoxini Malewitzkaja–1949 (Monogenoidea)– neue Fischparasiten auf tschechoslowakischen Gebiet. Biológica, Bratislava 10 1955: 511–513 2 figs.

Kašták, V. (5). Zum Fund von Dactylogyrus anchoratus Dujardin 1845 (Monogenoidea), eines neuen Parasiten von Fischen in der Slowakei. Biológica, Bratislava 11: 299–300 1 fig.

Kašták, V. (6). Fund einer Trematode aus der Familie der Echinostomatidae Dietz bei der gewöhnlichen Kamm-Muschel (Acerina cernua). Biológica, Bratislava 11:488-496 2 figs. [German summary.]

Kašták, V. (7). Vorläufige Mitteilung über das Auftreten von Fischparasiten in Gewässern der Slowakei. Biológia, Bratislava 11: 624–635. [German summary.]

Kates, K. C. The nomenclatural history of Giard's tapeworm *Thysaniezia giardi* (Moniez, 1879) Hudson, 1934. Syst. Zool. 3 1954: 171.

Kates, K. C. see Hwang, J. C.

Katiyar, K. P. see Srivastava, A. S.

Katz, F. F. The effect of irradiation on reproduction by the heterogenetic generation of *Strongyloides papillosus* (Wedl, 1856) Ransom, 1911. J. Parasit. 42 4 Sect. 2:11. [Abstract.]

Kelley, G. W. and Smith, L. J. The daily egg production of Ascaris suum and the inability of low levels of aureomycin to affect egg production and embryonation. J. Parasit. 42:587.

Kenny, R. see Endean, R.

Kerley, C. see Jones, A. W.

Kerr, K. B. Occurrence of Echinoparyphium recurvatum (Linstow, 1873) in chickens in Iowa. Proc. Iowa Acad. Sci. **59** 1952: 467–468.

Kershaw, W. E., Jamison, D. G., Nugent, D. and Duke, B. O. L. Preliminary observations on the depth distribution of the microfilariae of Onchocerca volvulus in the skin and its relation to the reservoir of infection to the fly. Trans. roy. Soc. trop. Med. Hyg. 50: 6.

Kershaw, W. E. and others. The distribution of the larvae of *Trichinella spiralis* in the muscles, viscera and central nervous system in cases of Trichinosis at Liverpool in 1953, and the relation of the severity of the illness to the intensity of infection. Ann. trop. Med. Parasit. 50: 355–361.

Khera, S. On some species of *Procamallanus* Baylis, 1923 from India. An. Esc. nac. Cienc. biol., Méx. 8 1955: 243-252 12 figs.

Kips, R. H. see Brande, J. van den. Kips, R. H. see D'Herde, J.

**Kirkegaard,** J. B. The zoogeography of the abyssal polychaetes. Publ. Un. int. Sci. biol. (B) No. 16 1954: 40–42.

Kischke, U. Die Nematoden aus der Torf-zone der Hochmoore des Oberharzes nebst Bemerkungen über gewisse Gruppen der terricolen Begleitfauna (Rotatoria, Acarina, Collembola). Arch. Hydrobiol. 52: 210–277 5 figs.

Kisielewska, K. (1). Investigations on the development of larvae of *Drepanidotaenia lanceolata* (Bloch) in the intermediate host. Acta Parasit. polon. 3:397–428 17 figs.

Kisielewska, K. (2). On relations inside the population of *Drepanidotaenia lanceolata* (Bloch) larvae in some intermediate hosts. Wiad. parazyt. Warszawa 2 5 Suppl.: 219–221. [English summary].

Kitada, J. The Golgi Bodies in the neurones of earthworms. Zool. Mag., Tokyo 65: 435–439 4 figs. [English summary p. 439].

Kłapkowska, K. see Jelska, A.

Knight-Jones, E. W. and Qasim, S. Z. Responses of some marine plankton animals to changes in hydrostatic pressure. Nature, Lond. 175 1955: 941.

**Knox,** G. A. The genus *Lepidonotus* (Polychaeta) in New Zealand. Rec. Canterbury (N.Z.) Mus. **7**: 43–50 17 figs.

Koenigswald, G. H. R. von see Sardjito, M.

Köhler, W. see Weiser, J.

Kollmannsperger, F. (1). Über Rhythmen bei Lumbriciden. Decheniana 108 1955; 81–92.

Kollmannsperger, F. (2). Über die Bedeutung der Regenwürmer für die Fruchtbarkeit der Bergsavannen Kameruns. Zool. Anz. 157: 216–219 1 fig.

Kolowrotkiewicz, W. Research on the occurrence of the parasites of the alimentary tract in children of creches, schools and homes in Wielkopolska. Wiad. parazyt. Warsawa 2 5 Suppl.: 77–78. [English summary.]

Komárek, J. and Kunst, M. Dendrocoelum (Eudendrocoelum) bohemicum n. sp., eine neue Planarie aus Böhmen. Zool. Anz. 157: 261–264 2 figs.

Koniar, P. (1). Die Mikrofauna der Thermalquellen von Treutschin Teplitz (Treučianske Teplice) in der Slowakei. Prace II Sekc. Slov. Akad. Vied. Sci. Biol. 1 10 1955: 1–60 12 pls. [German summary].

Koniar, P. (2). Beitrag zur Kenntnis der Radertierfauna (Rotatoria) der Moose in der Hohen Tatra. Biológica, Bratislava 10 1955: 449–463 11 figs. [German summary].

Konietzko, B. see Leloup, E.

Konstantinova, M. I. see Zenkevich, L. A.

Kotrlý, A. see Erhardová, B.

**Kozar,** Z. and **Szymańska,** H. (1). Epidemiological investigation on intestinal parasites in patients of a psychopathic hospital. Acta Parasit. polon. **3** 1955: 245–260 4 tables. [English summary].

Kozar, Z. and Szymańska, H. (2). A contribution on the occurrence of intestinal parasites in peasant children in Gdánsk district. Acta Parasit. polon. 3 1955: 269–278. [English summary].

**Kozar,** Z. and **Warda,** L. (1). Search for a trichinellosis reservoir in the small mammals of the Białowieza forest. Wiad. parazyt. Warszawa 2 5 Suppl.: 113–115.

Kozar, Z. and Warda, L. (2). A contribution to the epizootiology of trichinellosis in the neighbourhood of Gdansk and Gdynia. Wiad. parazyt. Warszawa 2 5 Suppl.: 173–174. [English summary].

Kozicka, J. (1). Fish parasites at Goldapiwo Lake. Wiad, parazyt. Warszawa 2 5 Suppl.: 207–208. [English summary].

Kozicka, J. (2). Research on major parasitic fish diseases in 37 lakes of the Wegorzewo Fisheries. Wiad. parazyt. Warszawa 2 5 Suppl.: 271–272. [English summary].

Kraus, O. Temnocephala brevicornis en El Salvador. Resultado del viaje exploración del Dr. Adolf Zilch en 1951. Comun. Inst. trop. Inv. cient. 3 1954: 19-20 l fig.

**Kraut,** N. An electrophoretic study of sera from rats artificially infected with and immunized against the larval cestode *Cysticercus fasciolaris*. J. Parasit. **42**: 109–121 5 figs.

**Kruidenier,** F. J. and **Gallicchio**, V. A survey of cestodes in mammals from Grand Canyon National Park. J. Parasit. **42** 4 Sect. 2:42. [Abstract.]

**Krupp,** I. M. Amebic invasion of the liver of guinea pigs infected with the larvae of the nematode, *Toxocara canis*. Exper. Parasit. **5**: 421–426.

Kulasiri, C. and Fernando, C. H. Camallanidae parasitic in some Ceylon fish. Parasitology 46: 420–424.

**Kunst,** M. Faunistische Notizen über Oligochäten und Hirudineen aus Island und Färöern. Hydrobiologia **8**: 323–327 1 fig.

Kunst, M. see Komárek, J.

Kuntz, R. E. and Chandler, A. C. (1). Studies on Egyptian trematodes with special reference to the heterophyids of mammals. I. Adult flukes, with descriptions of Phagicolli longicollis n. sp., Cynodiplostomum namrui n. sp. and a Stephanoprora from cats. J. Parasit. 42: 445–459 2 pls.

Kuntz, R. E. and Chandler, A. C. (2). Studies on Egyptian trematodes

with special reference to the heterophyids of mammals. II. Embryonic development of *Heterophyes aequalis* Looss. J. Parasit. **43**: 613–625 3 pls.

30

Kurvnik, D. G. and Lofthus, O. M. The effects of ionic action and osmotic pressure upon the fresh-water rotifer, *Philodina roseola*. Proc. S. Dak. Acad. Sci. 31 1952: 184. [Abstract.]

Kushibe, M. see Maekawa, K.

**Kuyp,** E. van der. Filariasis in Surinam. Arch. Inst. Pasteur Guyane No. 374 1955: 1–5.

Lafon, N., Durchon, M. and Saudray, Y. Recherches sur les cycles saisonniers du plankton. Ann. Inst. océanogr. Paris N.S. 31 1955: 125–230 figs.

Lai, M. Ostertagia (Ostertagia) mossi (Dikmans, 1931) parassita dell'abomaso dei bovini e dei caprini. Riv. Parassit, 17: 203–208 3 figs.

Lampert, R. see Swartzwelder, C.

Lamy, L. Identité possible des substances actives sur la formation des dispositifs capteurs chez les Hyphomycétes prédateurs et des substances antigéniques des extraits d'Helminthes parasites. C.R. Acad. Sci. Paris 242: 692–694.

Landram, J. F. and Cauthen, G. E. Some experiments on the effect of low level phenothiazine on the development of Ostertagia ostertagi larvae in bovine feces. Proc. helminth. Soc. Washington 23: 24–25.

**Lapage,** G. Veterinary parasitology, London and Edinburgh (Oliver and Boyd) 1956, pp. xvi + 964, 34 pls., 494 figs.

Laurie, J. S. The *in vitro* fermentation of carbohydrates by two species of tapeworms and one species of Acanthocephala. J. Parasit. 42 4 Sect. 2: 29. [Abstract].

Lee, R. D. see Parmelee, W. E.

Lefevere, S. and Leloup, E. Observations biologiques dans le Port d'Ostende. Mém. Inst. Sci. nat. Belg. No. 133; 1–157 3 pls.

**Legowski**, T. J. and **Brown**, E. B. Reproduction of potato root eelworm during the winter in a potato clamp. Nature, Lond. **177** 4502: 287.

**Lehmann**, D. L. Some helminths of Oregon urodeles. J. Parasit. **42**: 25.

**Lehmann,** F. E. Plasmatische Eiorganisation und Entwicklungsleistung beim Keim vom *Tubifex (Spiralia)*. Naturwissenschaften **34**: 289–296 10 figs.

Leigh, W. H. (1). The life-history of Macroderoides spiniferus Pearse, 1924, a trematode of the Florida spotted gar, Lepisosteus platyrhincus. J. Parasit. 42 4 Sect. 2:38. [Abstract].

**Leigh,** W. H. (2). Observations on life-histories of members of the genus *Ascocotyle* Looss (Heterophyidae). J. Parasit. **42** 4 Sect. 2: 39. [Abstract].

Leigh, W. H. and Holliman, R. B. The life-history of Paramacroderoides echinus Venard, 1941, a trematode of the Florida Gar, Lepisosteus platyrhincus. J. Parasit. 42: 400-407 l pl.

Lellák, J. The Chironomidae and other bottom fauna of some stagnant waters in the Central Lake (Elbe) region. A quantitative study of the zoobenthos of some stagnant waters in the Central Lake (Elbe) region. Rospr. České Akad. 63 8–9 1953: 1–142 figs. [English summary].

Leloup, E. and Konietzko, B. Recherches biologiques sur les eaux Saumâtres du Bas-Escaut. Mém. Inst. Sci. nat. Belg. No. 132: 1–100 5 pls., 26 figs.

Leloup, E., Van Meel, L. and Jacquemart, S. Recherches hydrobiologiques sur trois mares d'eau douce des environs de Liège. Mém. Inst. Sci. nat. Belg. No. 131 1954: 1–145 4 pls., 18 figs.

Leloup, E. see Lefevere, S.

Lender, T. Recherches expérimentales sur la nature et les propriétés de l'inducteur de la régénération des yeux de la planaire *Polycelis nigra*. J. Embryol. exp. Morph. 4: 196–216.

Lender, Th. see Stéphan-Dubois, F.

Lentati, G. B. (1). Ancora sulla differenziazione degli elementi germinali maschili in biotipi poliploidi di *Dugesia benazzi* Lepori. Mem. Soc. tosc. Sci. nat. **60B** 1953: 13–19 1 fig.

Lentati, G. B. (2). La gametogenesi in individui polisomici di Dugesia etrusca Benazzi. Mem. Soc. tosc. Sci. nat. 61B 1954: 35-47 8 figs.

**Lepori,** N. G. Sulla distribuzione geografica di *Polycelis nigra* Ehrenberg e *Polycelis tenuis* Iijima (Tricladida, Paludicola) in Europe. Boll. Zool. **21** 1954: 249–252.

**Lepsi,** I. Ein neuer Trematode: *Aspidogaster antipai* n. sp. Publ. Soc. Nat. Român. No. 10 1932 : 72–73.

Lesser, E. Parasitism in Korea. J. Parasit. 42: 515.

Levine, D. M. see Kagan, I. G.

Levine, N. D., Beamer, P. D. and Maksic, D. Hepatitis due to Amphimerus pseudofelineus in a cat. J. Parasit. 42 4 Sect. 2:37. [Abstract].

Levine, N. D., Bradley, R. E., Clark, D. T. and Kantor, S. The relation of semi-weekly pasture rotation to acquisition of gastrointestinal nematodes by sheep. J. Parasit. 42 4 Sect. 2:15. [Abstract].

Levine, N. D. and Clark, D. T. Correction factors for fecal consistency in making nematode egg counts of sheep feces. J. Parasit. 42: 658-659.

Levine, N. D., Clark, D. T. and Hanson, L. E. Encephalitis in a swan due to *Dendritobilharzia* sp. (Trematoda: Schistosomatidae). J. Parasit. 42: 496-499, 1 pl.

Lichtenberg, F. see Coker, C. M.

Lin, S. S. see Frick, L. P.

Linck, O. Lebens-Spuren aus dem Schilfsandstein (Mittl. Keuper km 2) NW-Württembergs und ihre Bedeutung für die Bildungsgeschichte der Stufe. Jh. Ver. vaterl. Naturk. Württemb. 97–101 1949 pp. 1–100 8 pls., 5 figs.

**Linde,** W. J. van der. The *Meloidogyne* problem in South Africa. Nematologica 1:177–183.

**Lindh,** N. O. The metabolism of nucleic acids during regeneration in *Euplanaria polychroa*. Ark. Zool. (2) **9**: 421–450.

Linford, M. B. see Mankau, G. R.

Lipparoni, E. Ricerche sulla incidenza della ossiurosi con lo "Scotch cellophane tape" (metodo di Graham) fra la popolazione infantile somala dell'eta scolare al Villaggio Duca degli

Abruzzi. Riv. Parassit. 17: 91–95. [English summary].

**Llewellyn,** J. The adhesive mechanisms of monogenetic trematodes: The attachment of *Plectanocotyle gurnardi* (V. Ben. and Hesse) to the gills of *Trigla.* J. mar. biol. Ass. U.K. **35**: 507–514 I pl., 2 figs.

**Löffler,** H. Ergebnisse der Osterreichischen Iranexpedition 1940/50: Linmologische Beobachtungen au Iranischen Binnengewässern. Hydrobiologia **8**: 201–278 25 figs.

Lofthus, O. M. see Kurvnik, D. G.

[Logachev, E. D.]. [Development and formation of male genital cells in cestodes]. J. gen. Biol. Moscow 16 1955: 291–297 fig. [In Russian].

**Loosanoff,** V. L. Two obscure oyster enemies in New England waters. Science **123**: 1119–1120.

**López-Neyra,** C. R. Revision de la superfamilia Filarioidea (Weinland, 1858). Rev. ibér. Parasit. **16**: 3–212, 319–331, 41 pls.

Lordello, L. G. E. (1). A redescription of *Dorylaimus krygeri* Ditlevsen, 1928, from Brazil (Nematoda, Dorylaimidae). Rev. bras. Biol. 16: 163–165 3 figs.

Lordello, L. G. E. (2). "Meloidogyne inornata" sp. n., a serious pest of soybean in the state of São Paulo, Brasil (Nematoda, Heteroderidae). Rev. brasil. Biol. 16: 65-70 9 figs.

Lubyanov, I. P. Contribution to the seasonal change in the benthos fauna of the ponds in the Ukrainian steppe. Zool. Zh. 35 No. 12: 1791– 1798. [Russian, with English summary p. 5].

Lucker, J. T. The structure, synonyms and hosts of *Physaloptera mexicana* (Nematoda; Physalopteridae). Proc. Helminth. Soc. Wash. 23: 1-4 3 figs.

Lucker, J. T. see Rubin, R.

Lucký, Z. (1). Eier von Hepaticola petruschewskii in der Leber einer Schleie. Čsl. parasit. 2 1955: 99–101 1 fig. [German summary].

**Lucký,** Z. (2). Neascus cuticola als parasit von Scardinius erythrophthalmus in Südmähren. Csl. parasit. 2 1955: 102–104 fig. [German summary].

Lucký, Z., Dyk, V. and Bártik, M. Parasitofauna ryb v oblasti reservace velký tisý y Lomnia nad Luzniá. Čas. nár. Mus. 124 1955 : 55–64 5 figs.

Lucký, Z. see Dyk, V.

Lukin, E. I. On the occurrence in the USSR of an interesting species of leeches, *Boreobdella verrucata* (Fr. Müller). Zool. Zh. 35 No. 9: 1417–1419. [Russian, with English summary, p. 14].

**Lumberg,** A. Über das Plankton des Flusses Emajógi. Loodus. Seltsi Aast. **49**: 131–142. [German summary, pp. 16–17].

**Lupu,** E. and **Roman,** E. Un cas d'adaptation d'un trématode ectoparasite sur *Misgurnus fossilis*. Comun. Acad. Republ. rom. **6**: 145–149 3 figs. [French résumé].

**Lynsdale,** J. A. On two new species of *Lytocestus* from Burma and the Sudan respectively. J. Helminth. **30**: 87–96 6 figs.

**McCarthy,** D. Pseudo-periodicity in the Pacific variety of *Wuchereria bancrofti*: a study of fluctuations in the density of microfilariae in the peripheral blood of Samoans. Trans. roy. Soc. trop. Med. Hyg. 50: 66–71.

McCarthy, D. D. and Fitzgerald, N. Habit, habitat and hyperfilariation in the epidemiology of filariasis in Western Samoa. Trans. roy. Soc. trop. Med. Hyg. 50: 58–65.

MacDonald, E. M. see Scott, J. A.

McFadzean, J. A. and Smiles, J. Studies of *Litomosoides carinii* by phase-contrast microscopy: the development of the larvae. J. Helminth. **30**: 25–32 3 pls.

McGinitie, G. E. Distribution and ecology of the marine invertebrates of Point Barrow, Alaska. Smithson. Misc. Coll. 128 1955: 1–201 8 pls.

**Macháček,** J. Příspěrek k pruzkuma helmintofauny kachen v kraji brněuském. Čsl. parasit. **1** 1954: 175–177 l fig.

McIntosh, A. Early stages of the larvae (Cysticercus bovis) of Taenia saginata. J. Parasit. 42 4 Sect. 2: 41. [Abstract].

Mackintosh, G. M. Helminth parasites of the rabbit, Oryctolagus

cuniculus on the Isle of Eigg. Proc. R. phys. Soc. Edinb. 24 1955: 35-37.

Macko, J. K. (1). Über die Cestodenfauna der Rabenvögel in der Ostslowakei. Biológica, Bratislava 11: 457–465 5 figs. [German summary].

Macko, J. K. (2). Über die Trematodenfauna von Wasserhühnen (Fulica atra L.). Biológica, Bratislava 11: 530–540 5 figs. [German summary].

Maclean, G. An experiment in the control of Schistosomiasis. Second report. Ann. trop. Med. Parasit. 50:81-84.

Macy, R. W. The life cycle of *Plagiorchis parorchis* n. sp. (Trematoda: Plagiorchiidae). J. Parasit. **42** 4 Sect. 2:28. [Abstract].

Madsen, D. E. Microfilaria in elephants. J. Parasit. 42: 552.

Maekawa, K. and Kushibe, M. Sur la composition chimique de l'antigène pour la dermo-réaction allergique vis-à-vis de Fasciola hepatica. C.R. Soc. Biol. Paris 150: 832–834.

Maghraby, A. M. el and Perkins, E. J. Additions to the marine fauna of Whitstable. Ann. Mag. nat. Hist. (12) 9:481–496.

**Mahon**, J. (1). On a collection of avian cestodes from Canada. Canad. J. Zool. **34**: 104–119 23 figs.

Mahon, J. (2). Dendrouterina pilherodiae sp. nov. (Dilepididae) from Pilherodias pileatus (Bodd.). Canad. J. Zool. 34: 28-34, 8 figs.

Maiphoom, C. see Headlee, W. H.

Makino, N. see Yamao, Y.

Maksic, D. see Levine, N. D. Malacea, I. see Enaceanu, V.

Malczewski, A. see Czaplinski, B.

Maneely, R. B. The value of "Nonex" as an embedding medium in vertebrate and invertebrate histology. Trans. roy. Soc. trop. Med. Hyg. 50: 9.

**Mankau**, G. R. and **Linford**, M. B. Soybean varieties tested as hosts of the clover cyst nematode. Plant Dis. Rep. **40**: 39–42.

Mankau, S. K. (1). Studies on the helminth, *Echinococcus alveolaris* (Klemm, 1883) from St. Lawrence Island, Alaska. II. Development of brood capsules and scolices in alveolar cysts, in white mice. Trans. Amer. micr. Soc. 75: 401–406 2 pls.

Mankau, S. K. (2). Studies in Echinococcus alveolaris (Klemm, 1883), from St. Lawrence Island, Alaska. III. The histopathology caused by the infection of E. alveolaris in white mice. Amer. J. trop. Med. Hyg. 5: 872–880.

Mann, K. H. A study of the oxygen consumption of five species of leech. J. exp. Biol. 33: 615-626 7 figs.

Mann, P. H. The histopathology produced in the albino mouse by *Schistosomatium douthitii* Cort, 1914. J. Tenn. Acad. Sci. 31: 208-211 4 figs.

Manter, H. W. Two new monogenetic trematodes from South Africa and New Zealand. Essays in the nat. Sciences in Honor of Capt. A. Hancock. Los Angeles 1955: 211–220 1 pl.

Marcuzzi, G. Fauna della Dolomiti. Mem. Ist. veneto. Cl. Sci. matnat. 31: 1–595 16 pls., 73 figs.

Margolis, L. (1). Anomalous development of vitellaria in *Hemiurus levinseni* (Trematoda). Canad. J. Zool. **34**: 207–208 1 fig.

Margolis, L. (2). Parasitic helminths and arthropods from Pinnipedia of the Canadian Pacific coast. J. Fish. Res. Bd. Can. 13: 489–505 1–15 figs.

Margolis, L. and Adams, J. R. Description of Genolinea oncorhynchi n. sp. (Trematoda: Hemiuridae) from Oncorhynchus gorbuscha in British Columbia with notes on the genus. Canad. J. Zool. 34: 573–577 1 fig.

Markell, E. K. Probolitrema mexicana n. sp., an anoporrhutine trematode from elasmobranchs of Baja California. J. Parasit. 42: 56–59 1 pl.

[Markov, G. S.] [Peculiarities in the formation of the endoparasitic fauna in the ontogenesis of vertebrate animals]. Bull. Leningrad Univ. 7 1955: 3-15. [In Russian].

Marquardt, W. C. and Senger, C. M. Lungworms in the bighorn sheep of Montana. Proc. helminth. Soc. Wash. 23:68-69.

Marques de Gama, M. see Fonseca, F.

Martin, W. E. The life cycle of Catatropis johnstoni n. sp. (Trematoda: Notocotylidae). Trans. Amer. micr. Soc. 75: 117–128 2 pls.

Mashiko, K. A study of the brackish-water plankton in Japan, with special reference to the relation between the plankton fauna and the salinity of the water. Sci. Rep. Kanazawa Univ. 4 1955: 135–215 1 fig.

Massey, C. L. Nematode parasites and associates of the Engelmann spruce beetle (*Dendroctonus engelmanni* Hopk.). Proc. helminth. Soc. Wash. 23: 14–24 4 figs.

**Mathies,** A. W., Jr. and **Cort**, W. W. Larval trematode infections in snails of different sizes. J. Parasit. **42**: 429–431.

Mauret, P. see Puytorac, P. de.

Mawson, P. M. (1). Free-living nematodes. Section I: Enoploidea from Antarctic stations. Rep. B.A. N.Z. Antarct. res. Exped. 6B 3: 37–74 37 figs.

Mawson, P. M. (2). Ascaroid nematodes from Canadian birds. Canad. J. Zool. 34: 35–47, 29 figs.

Mawson, P. M. (3). Physaloptera variegata Reiber, Byrd, and Parker, 1940 from three species of reptiles. Canad. J. Zool. 34: 75–76.

Mawson, P. (4). Rhabdochona chabaudi n. sp. from Barbus meridionalis. Canad. J. Zool. 34: 79–81, 5 figs.

Mawson, P. M. (5). Capillarid worms from Canadian birds. Canad. J. Zool. 34: 163–164.

Mawson, P. M. (6). Trichostrongylid worms from Canadian birds. Canad. J. Zool. 34: 164–165.

Mawson, P. M. (7). Three new species of spirurid nematodes from Canadian birds. Canad. J. Zool. 34: 193–199 15 figs.

Mawson, P. M. (8). Spirurid nematodes from Canadian birds. Canad. J. Zool. 34: 206.

Mayer, G. (1). Bisher bekannte und neue Vorkommer der Triàs-Lebensspur Rhizocorallium jenense Zenker. Beitr. naturk. Forsch. Sudw. Dtsch. 11 1952: 111–115 2 pls. Mayer, G. (2). Serpula pygmaea v. Mstr. aus dem Hauptmuschelkalk von Pforzheim nebst Bemerkungen zur Taxonomie von Serpula serpentina Schmid und Schlieden (=Serpula socialis Goldf.). Beitr. naturk. Forsch. Sudw. Dtsch. 10 1951: 110–112.

Mazzotti, L. see Baez, M. M.

Mehra, K. N. (1). Studies on the life history of *Hymenolepis fraterna*. (Stiles, 1906), a tapeworm of rat. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 284. [Abstract.]

Mehra, K. N. (2). Studies on the life history of *Hymenolepis diminuta* (Rud., 1819), a common tapeworm of rat and man. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 284. [Abstract].

Mehra, K. N. and Srivastava, H. D. (1). Studies on the life history of Moniezia benedeni (Moniez, 1879), a tapeworm of ruminants. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 352. [Abstract].

Mehra, K. N. and Srivastava, H. D. (2). Studies on the life history of Moniezia expansa (Rud., 1810) a broad tapeworm of ruminants. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 352. [Abstract].

Mehra, K. N. see Dutt, S. C.

Mehra, K. N. see Srivastava, H. D. Meier, H. see Schwabe, C. W.

Meier, M. Die Monocystideenfauna der Oligochaeten von Erlangen und Umgebung, Arch. Protistenk. 101: 335–400 48 figs.

Mello-Leitao, A. Equiurideos do Estado do Espirito Santo. Rev. Biol. mar. 5 1955: 130–131.

Melvin, D. M., Sadun, E. H. and Heimlich, C. R. Comparison of the direct smear and dilution egg counts in the quantitative determination of hookworm infections. Amer. J. Hyg. 64: 139-148.

Mendheim, H. and Steinbacher, G. Über den Wurmbefall bei zootieren und seine Behandlung. Zool. Gart. Lpz. 21: 263.

Menon, P. K. B. see Gideon, P. W.

Mettrick, D. F. (1). A new trematode, Reesella doviensis gen. et sp. nov., from the oystercatcher, Haematopus

ostralegus occidentalis in Wales. J. Helminth. 30: 81-86 2 figs.

Mettrick, D. F. (2). Some new host records for Lutztrema monenteron Price and MacIntosh, 1935, and variations occurring in its morphology. Trans. roy. Soc. trop. Med. Hyg. 50: 3.

Meyer, P. Die Regeneration im Tierreich. De Behandlung des Problems in Unterricht au Hand zweier angewählter Beispiele. Teil II: Versuche mit Planarien. Mikrokosmos 45: 148–153 5 figs.

Meyl, A. H. Beiträge zur freilebenden Nematodenfauna Brasiliens, 1. Acht neue Nematodenarten der Ueberfamilie Dorylaimoidea. Nematologica 1: 311–325 5 pls.

Michajlow, W. On methods of research on the development of Pseudophyllidea in the first intermediate hosts. Wiad. parazyt. Warszawa 2 Suppl. 5: 227–228. [English summary].

Milewska, D. see Jelska, A.

Millemann, R. E. Notes on the genus *Hexostoma* (Monogenea: Hexostomatidae) with a redescription of *H. euthymi* Meserve, 1938. J. Parasit. **42**: 316–320 4 figs.

Miller, C. A., Johnson, W. H. and Millis, S. C. The sterilization and preliminary attempts in the axenic cultivation of the black planarian, *Dugesia dovotocephala*. Proc. Indiana Acad. Sci. 65: 237–242.

Miller, J. H. see Swartzwelder, C. Millis, S. C. see Miller, C. A.

Minato, M. and Suyama, K. Kotfossilien von Arenicola-artigem Organismus aus Hokkaido, Japan. Jap. J. Geol, and Geogr. 21 1949: 277–279 l pl.

**Minderman,** G. (1). Aims and methods in population researches on soil-inhabiting nematodes. Nematologica 1: 47–50.

Minderman, G. (2). New techniques for counting and isolating free living nematodes from small soil samples and from oak forest litter. Nematologica 1: 216–226.

Mizelle, J. D. see Berry, J. E.

Mizelle, J. D. see Coleman, R. M.

Mizelle, J. D. see Moran, J. F.

Molfi, A. and Freitas Fernandes, B. de. Corynosoma enriettii n. sp., parasita de patos e marrecos domésticos (Palaeacanthocephala: Polymorphidae). Arch. Biol. Curitiba 8 1953: 3-6 6 pls.

Monaco, L. H. see Seamster, A.

Moniuszko-Codrow, A. and Stojalowska, W. Enterobiosis in home of infants at Łabunie. Wiad. parazyt. Warszawa 2 5 Suppl.: 79–80.

Monné, L. On the histochemical properties of the egg envelopes and external cuticles of some parasitic nematodes. Ark. Zool. 9: 93–113.

Moon, H. P. Observations on a small portion of a drying chalk stream. Proc. zool. Soc. Lond. 126: 327–333. 1 fig.

Moore, D. V. and Sandground, J. H. The relative egg producing capacity of *Schistosoma mansoni* and *Schistosoma japonicum*. Amer. J. trop. Med. Hyg. 5: 831–840.

Morais, Tito de. Subsidios para o estudo dos moluscos vectores da bilharziose na Zambézia (Močambique). An. Inst. Med. trop., Lisboa. 13: 883–899 5 figs., 1 map. [English summary].

Morais, Tito de see Soeiro, A.

Moran, J. F., Jr. and Mizelle, J. D. Notes on the habitat and tissue-phase of Ascaridia galli (Schrank, 1788). J. Parasit. 42 4 Sect. 2:18. [Abstract].

Moreton, B. D., John, M. E. and Goodey, J. B. Aphelenchoides sp. destroying mushroom mycelium. Nature, Lond. 177: 795.

Morgans, J. F. C. see Day, J. H.

Moriarty, F. see Duddington, C. L.

Moriarty, F. see Jones, F. G. W.

Moroni, A. Ricerche idrobiologiche sui laghi dell' Appennino Parmense. Nota preliminaire. Boll. Zool. 22 fasc. 2 1955: 165–180 1 pl.

Motas, C. and Băcesco, M. Hypania invalida (Grube) et Hypaniola Kowalewskii (Grimm) en Roumaine. Ann. Sci. Univ. Jassy (2) 24 1938: 337–345 5 figs.

Mukerji, D. and Raychoudhuri, S. Occurrence of a mermethid [sic]

worm parasite on *Helopolites theivora* Waterhouse. Curr. Sci. **25**: 60–61 3 figs.

**Müller,** K. J. Zur Kenntnis der Conodonten-Fauna des europäischen Devons. 1. Die Gattung *Palmatolepis*. Abh. Senckenb. naturf. Ges. No. 494: 1–69 11 pls.

Müller-Liebenau, P. Die Besiedlung der Potamogeton-Zone ostholsteinischer Seen. Arch. Hydrobiol. 52: 470-606 6 pls., 10 figs.

Münch, H. D. Zur Fauna des Küstengrundwassers der Insel Hiddensee. III. Spirotriche und Peritriche, Rotatorien und Archianneliden aus den Küstengrundwasser (Anhang: Oligochaeten und Copepoden). Wiss. Z. E. M. Arndt. Univ. Greifswald. Math. Nat. R. 5: 433–436.

**Murchie,** W. R. Survey of the Michigan earthworm fauna. Pap. Mich. Acad. Sci. **41**: 53–72.

Muus, B. J. (1). A note on the Danish hairworms, Nematomorpha; Gordioidea. Vidensk. Medd. dansk. naturh. Foren. Kbh. 118: 33–39 4 figs.

Muus, B. J. (2). Aphroditidae, Phyllodocidae and Alciopidae. Fich. Ident. Zoopl. Sheet 52: 1–6.

**Muus,** B. J. (3). Tomopteridae and Typhloscolecidae. Fich. Ident. Zoopl. Sheet 53, 1956: 1–5.

Myers, B. J. An adult Hemiurus sp. (Trematoda) from Sagitta elegans Verrill. Canad. J. Zool. 34: 206–207.

Myers, R. M. E. see Cable, R. M.

Nagaty, H. F. (1). Trematodes of fishes from the Red Sea. Part 6. On five distomes including one new genus and four new species. J. Parasit. 42: 151-155, 5 figs.

Nagaty, H. F. (2). Trematodes of fishes from the Red Sea. Part 7. On two Gyliauchenids and three Allocreadoids, including four new species. J. Parasit. 42: 523–527 l pl.

Najim, A. T. Life history of Gigantobilharzia huronensis Najim, 1950. A dermatitis-producing bird blood-fluke (Trematoda-Schistosomatidae). Parasitology 46: 443–469 1–19 figs.

Nasir, A. S. see Ansari, M. A. R.

Nath, V. and Singh, S. The nematode sperm. Res. Bull. Panjab Univ. No. 91: 121–134 1 pl.

Nesslinger, C. see Boyd, E. M.

Newton, W. L. and Wright, W. H. The occurrence of a dog filariid other than *Dirofilaria immitis* in the United States. J. Parasit. **42**: 246–258, incl. 2 pls.

Nicholas, W. L. The axenic culture of *Turbatrix aceti* (the vinegar eelworm). Nematologica 1:337-340.

Nichols, R. L. The etiology of visceral larva migrans. I. Diagnostic morphology of infective second-stage Toxocara larvae. II. Comparative larval morphology of Ascaris lumbricoides, Necator americanus, Strongyloides stercoralis and Ancylostoma caninum. J. Parasit. 42: 349–399 21 pls.

Nielsen, C. O. (1). Survey of a year's results obtained by a recent method for the extraction of soil-inhabiting enchytraeid worms. Soil Zoology, London, 1955: 202–214 6 figs.

**Nielsen,** C. O. (2). A technique for extracting Enchytraeidae from soil samples. Soil Zoology, London, 1955: 365–372 1 fig.

Nielsen, C. O. (3). Studies on Enchytraeidae. Nat. Jutland 4–5 2 1955: 1–58 5 figs.

Nielsen, C. O. (4). Studies on Enchytraeidae. 5. Factors causing seasonal fluctuations in numbers. Oikos 6 2 1955: 153–169 4 figs.

Nigon, V. and Dougherty, E. C. Variations dans la vitesse de croissance chez un nématode *Caenorhabditis elegans* (Maupas). Caryologia **6** Suppl. Atti IX Congr. Internat. Genet. pl. 2 1954: 796–797.

Niles, W. J. and Samarawick-rama, W. A. Anopheles hyrcanus var. nigerrimus Giles: a possible vector of bancroftian filariasis in Ceylon. Trans. roy. Soc. trop. Med. Hyg. 50: 182–183.

Nishizawa, T. see Iyatomi, K.

Nitu, S. see Pora, E. A.

Nitzulescu, V., Popescu, I. and Crăciun-Simionescu, O. Evolution du parasite *Hymenolepis diminuta*. Comun. Acad. Republ. Pop. rom. 5 1955: 1557–1558. [French summary].

Nitulescu, N., Pozsgi, N., Sorescu, A., Panaitescu, D., Hacig, A. and Solomon, P. Problèmes attachés aux recherches helminthologiques dans les régions minières. Stud. Cercet. Inframicrobiol. Acad. Repub. rom. 7: 193–202. [French résumé].

Noda, R. (1). On the prenatal infection of dogs with ascarids, *Toxocara canis*. Bull. Naniwa Univ. **4B** 1954: 111-119.

Noda, R. (2). Trichuris species from giraffe and cattle. Bull. Univ. Osaka 5B 1955: 119–126 20 figs.

Nolf, L. O. see Goldberg, E.

Nolte, H. W. Beiträge zum Problem der Aktivierung der Heterodera -Zysten. Nematologica 1:71–78, 1 pl.

Norman, L. see Sadun, E. H.

Nugent, D. see Kershaw, W. E.

Nyberg, W. & Östling, G. Low vitamin B<sub>12</sub> concentrations in serum in fish tapeworm anaemia. Nature, Lond. 178: 934–935.

**Obr,** S. Hydrobiologische Untersuchung der Fauna des Orava-Flussgebietes mit Hinsicht auf die Wasserreinheit. Acta Acad. Sci. Čech. **28**: 377–445. [German summary].

**Odlaug, T. O.** Helminth parasites reported from vertebrates in Minnesota. The Flicker, Minneapolis, **28**: 138–148.

Ogren, R. E. (1). Development and morphology of the oncosphere of *Mesocestoides corti*, a tapeworm of mammals. J. Parasit. 42: 414-428 2 pls., 1 fig.

**Ogren,** R. E. (2). Development and morphology of glandular regions in oncospheres of *Hymenolepis nana*. Proc. Pa. Acad. Sci. **29** 1955: 258–264 20 figs.

Ogren, R. E. (3). Physical observations on movement and behaviour of the land planarian *Rhynchodemus sylvaticus* (Leidy). Proc. Pa. Acad. Sci. 30: 218–225 17 figs.

Ogren, R. E. (4). Embryonic development and morphology of onchospheres of the tapeworm *Oochoristica symmetrica* (Cyclophyllidea: Linstowidae). J. Parasit. 42 4 Sect. 2: 30-31. [Abstract].

Ohkawa, M. Studies on the fertilization in an Echiuroid, *Urechis unicinctus* (von Drasche). II. Effects of urea upon the vitelline and fertilization membranes. Zool. Mag., Tokyo 65: 210–218.

Okorokov, V. I. A new species of cestodes, *Tatria mathevossianae* (Fam. Amabiliidae), from *Podiceps ruficollis* (Pallas). Zool. Zh. **35** No. 9: 1299–1302 2 figs. [Russian, with English summary p. 3].

**Oliver,** J. H., Jr. and **Short,** R. B. Longevity of miracidia of *Schistosomatium douthitti*. Exp. Parasit. **5**: 238–249 2 figs.

Olivier, L. Observations on vectors of *Schistosomiasis mansoni* kept out of water in the laboratory. I. J. Parasit. 42: 137-146 2 figs., 2 tables. Errata, p. 347.

Olivier, L. and Barbosa, F. S. Observations on vectors of *Schistosomiasis mansoni* kept out of water in the laboratory. II. J. Parasit. 42: 277–286.

Omodeo, P. (1). Oligocheti lumbricidi raccolti dal Dr. Marcuzzi sulle dolomiti. Atti Ist. veneto. Cl. Sci. Mat. Nat. 112 1954 : 31–40.

Omodeo, P. (2). Problemi faunistici riguardanti gli oligocheti terricoli della Sardegna. Mem. Soc. tosc. Sci. nat. 61B 1954: 49–61 2 maps.

Omodeo, P. (3). Lombrichi cavernicoli di Grecia e Turchia, raccolti dal Dr. K. Lindberg. Annu. Inst. Zool. Univ. Napoli 7 1 1955; 1–16 1 fig.

Omodeo, P. (4). Nuove specie dei generi a distribuzione anfiatlantica Wegeneriella e Neogaster. (Acanthodrilidae, Oligochaeta). Annu. Inst. Zool. Univ. Napoli 7 3 1955: 1–30 5 figs.

Omodeo, P. (5). Oligocheti dell' Indocina e del Mediterraneo orientale. Mem. Mus. Civ. Stor. nat. Verona 5 1955; 321–336 5 figs.

Omodeo, P. (6). Ricerche Zoologiche sur Monti Sibillini. VI. Lombrichi dei Monti Sibillini e la drilofauna degli Appennini. Mem. Mus. Civ. Stor. nat. Verona 5: 183–187.

Onabamiro, S. D. The early stages of the development of *Dracunculus medinensis* (Linnaeus) in the mammalian host. Ann. trop. Med. Parasit. **50**: 157–166, 2 pls.

**Oostenbrink,** M. and others. An interpretation of some crop rotation experiences based on nematode surveys and population studies. Nematologica 1: 202–215.

Osche, G. (1). Über die Vergesellschaftung von Nematoden und Crustaceen, mit einer Beschreibung von Matthesonema tylosa n. g. n. sp. aus. dem Kiemenraum einer Assel. Zool. Anz. 155 1955: 253–262, 2 figs.

Osche, G. (2). Untersuchungen über die Morphologie vor allem des "Lippenapparates" von *Paraspidodera uncinata* (Nematoda) aus dem Meerschweinchen. Ein Beitrag zur Phylogenese zusammengesetzter Komplexorgane (Synorganisation). Z. Morph. Ökol. Tiere 45: 250–274 18 figs.

Osche, G. (3). Die Präadaptation freilebender Nematoden an den Parasitismus. Verh. dtsch. zool. Ges. 19: 391–397.

Östling, G. see Nyberg, W.

Ouden, H. den. The influence o hosts and non-susceptible hatching plants on populations of *Heterodera schachtii*. Nematologica 1:138–144.

Paesler, F. (1). Beitrag zur Erweiterung der Kenntnis der Gattung Myolaimus. Zool. Anz. 157: 223–231 3 figs.

Paesler, F. (2). Beschreibung einer neuen Plectonchus-Art, Plectonchus sucicola n. sp. Zool. Anz. 157: 231–234 2 figs.

Palmer, B. M. F. A comparative study of the incidence of intestinal parasites of children in Des Moines, Iowa. Proc. Iowa Acad. Sci. **59** 1952 : 487–491 1 fig.

Palombi, A. Adattamenti biologici dei Trematodi Digenetici al fine della conservazione della specie. Pubbl. Staz. zool. Napoli 27 1955: 108–113.

Panaitescu, D. see Nițulescu, N.

Panaitescu, D. see Sorescu, A.

Papi, F. (1). Aspetti del differenziamento razziale e specifico nei

Turbellari Rabdoceli. Boll. Zool. 21 1954: 357–377, 8 figs.

Papi, F. (2). Un nuovo genere marino di Dalyelliidae (Turbellaria Neorhabdocoela). Monit. zool. ital. 64:6-15 10 figs.

**Paris,** J. Commensalisme et parasitisme chez les annélide polychètes. Vie et Milieu **6**: 525–536 7 figs.

Parmelee, W. E., Lee, R. D., Wagner, E. D. and Burnett, H. S. A survey of *Thelazia californiensis*, a mammalian eye worm, with new locality records. J. Amer. vet. med. Ass. 129: 325–327 map.

Passey, R. F. see Fairbairn, D.

Patay, R. see Dollfus, R. P.

Patyk, S. (1). The vermination of the lungs, liver and alimentary tract of cattle grazed in the meadows irrigated by town sewers. Wiad. parazyt. Warszawa 2 5 Suppl.: 157–158. [English summary].

Patyk, S. (2). The vermination of the alimentary tract of cattle in the western territories of Poland. Wiad. parazyt. Warszawa 2 5 Suppl.: 171–172. [English summary].

Patzer, M. E. see Etges, F. J.

**Pawlowski,** L. K. Observations biologiques sur les sangsues. Bull. Soc. Sci. Lódz Cl. III. **6** 1955: 1–21 2 pls.

**Peacock**, F. C. (1). The reniform nematode in the Gold Coast. Nature, Lond, 117: 489.

**Peacock,** F. C. (2). The reniform nematode in the Gold Coast. Nematologica 1:307-310 2 pls.

**Pearson, J. C.** Studies on the life cycles and morphology of the larval stages of *Alaria arisaemoides* Augustine and Uribe, 1927 and *Alaria canis* La Rue and Fallis, 1936 (Trematoda: Diplostomidae). Canad. J. Zool. **34**: 295–387 69 figs., 1 pl.

Pecha, J. see Bàrtík, M.

**Pedersen**, K. J. On the oxygen consumption of *Planaria vitta* during starvation, the early phase of regeneration and asexual reproduction. J. exp. Zool. **131**: 123–136.

Pellegrino, J. and Brener, Z. Method for isolating schistosome granu-

lomas from mouse liver. J. Parasit. 42: 564 fig.

Pena, A. J. see Cambournac, F. J. C.

**Penner,** L. R. Studies on the biology of marine acquired avian schistosomiasis. J. Parasit. **42** 4 Sect. 2: 38. [Abstract].

Penner, L. P. and Wagner, A. Concerning the early developmental stages of *Ornithobilharzia canaliculata* (Rudolphi, 1819). J. Parasit. **42** 4 Sect. 2: 37–38. [Abstract].

**Pérès,** J.-M. Résultats scientifiques des campagnes de la Calypso. III. Etudes sur l'ilot du Grand Congloué (Archipel de Riou, près Marseille). VI. Annélides polychètes. Ann. Inst. oceanogr. N.S. **32**: 227–229.

**Perkins,** E. J. (1). Notes on the fauna of the River Lugg at Shelwick July-August, 1953. Trans. Woolhope Nat. Fld. Cl. **35**: 57-61.

Perkins, E. J. (2). The fauna of a sand-bank in the mouth of the Dee Estuary. Ann. Mag. nat. Hist. (12) 9: 112–128 3 figs.

Perkins, E. J. see Maghraby, A. M. el.

**Peter,** C. T. (1). Echinostome Cercariae from Bareilly, with the description of a new species. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 285. [Abstract].

**Peter,** C. T. (2). A note on the pre-cercarial development of *Pseudodiscus collinsi* (Cobbold, 1875) Sonsino, 1895. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 352–353. [Abstract].

Peter, C. T. (3). Studies on the cercarial fauna in Madras. IV. The Amphistome and Gymnocephalous groups of Cercariae. Ind. J. vet. Sci. 26: 27-30.

Peter, C. T. and Srivastava, H. D. (1). Cercaria ratnagiriensis, n. sp., a megalurous Cercaria from Paludomus obesa (Philippi). Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 284–285. [Abstract].

Peter, C. T. and Srivastava, H. D. (2). On five new species of amphistome cercariae from India. Proc. Indian Sci. Congr. Ass. 42nd. 1955: 353. [Abstract].

**Peters, B. G. (1).** Soil-inhabiting nematodes. Soil Zoology, London, 1955: 44–54.

Peters, B. G. (2). A note on simple methods for recovering nematodes from soil. Soil Zoology, London, 1955: 373-374 1 fig.

**Peters**, B. G. (3). A note on handling and processing nematodes. Soil Zoology, London, 1955: 417–418 1 fig.

Petersen, I. C. see Berg, K.

Petit, G. and Rullier, F. Encore Mercierella enigmatica dans les eaux saumatres du Roussillon et du Languedoc. Vie et Milieu 7: 27–37 1 fig.

**Petrovický**, O. Generalisovaná cysticerkosa a současná infekce toxoplasmaticá. Česk. Parasit. **3**: 77–80. [German summary].

**Petrucci,** D. Citocromossidasi e respirazione in presenza di KCN e di CO negli Oligocheti. Monit. zool. ital. **63** 1955: 143–163.

Petter, F. Invagination intestinale multiple déterminée par la présence d'un nématode chez un ecureuil terrestre d'Afrique occidentale française, Xerus erythropus (Geoffroy). Ann. Parasit. hum. comp. 31: 300-301 2 figs.

Pettibone, M. H. (1). Marine polychaete worms from Labrador. Proc. U.S. nat. Mus. 105: 531–584. 1 fig.

**Pettibone**, M. H. (2). Some polychaete worms of the families Hesionidae, Syllidae, and Nereidae from the East Coast, North America, West Indies, and Gulf of Mexico. J. Wash. Acad. Sci. **46**: 281–294 8 figs.

Petzold, H.-G. Zur Fauna des Küstengrundwassers der Insel Hiddensee. II. Holotriche Ciliaten, Nematoden und Gastrotrichen aus dem Küstengrundwasser. Wiss. Z. E.M. Arndt. Univ. Greifswald. Math.-Nat. R. 5: 429-433.

Pfitzner, I. Die Landplanarie Dolicholpana feildeni Graff 1899 neu in Deutschland. Zool. Anz. 156: 226–228, 1 fig.

**Pflugfelder,** O. Abwerreaktion der Wirtstiere von *Polymorphus boschadis* Schr. (Acanthocephala). Z. Parasit. **17**: 371–382 5 figs.

Pieragnoli, U. (1) Il cariogramma d-Dugesia lugubris (O. Schmidt) (Trii clade paludicolo). Mem. Soc. tosc. Sci. nat. 60B 1953; 31–35 3 figs.

Pieragnoli, U. (2). Il ciclo cromosomico in un biotipo poliploide di Dugesia lugubris (O. Schmidt) (Triclade Paludicolo). Mem. Soc. tosc. Sci. nat. 61B 1954: 18–34 10 figs.

Pierce, E. L. see Bumpus, D. F.

**Pierkarski,** G. Über das Parasit-Wirt-Verhältnis. Verh. dtsch. zool. Ges. **19**: 349–362, 9 figs.

Pimlott, D. H. see Choquette, L. P. E.

Pinto, A. R. Nota prévia sobre a incidência da bilharziose na Guiné Portuguesa. An. Inst. Med. trop., Lisboa 12 1955: 653–658.

Pinto, J. dos S. Acção do cloridrato de quinino sobre o turbelário marinho Convoluta roscoffensis Graff. Rev. Fac. Ciênc. Univ. Lisboa (2C) 5: 113–121 3 pls.

Piotrowski, F. see Drygas, M.

**Piringer,** W. and E. Photostudie über die Entwicklung der Eier von Ascaris lumbricoides. Mikroskopie 10: 349–352 10 figs. [English summary].

Pistey, W. R. Studies on the mosquito transmission of *Dirofilaria tenuis* Chandler, 1942. J. Parasit. **42** 4 Sect. 2: 16. [Abstract].

**Pojmańska,** T. (1). The internal parasites (Cestoda, Trematoda) of small field mammals (Insectivora, Rodentia) of the neighbourhood of Turwia near Poznan. Wiad. parazyt. Warszawa 2 5 Suppl.: 223–224. [English summary].

**Pojmańska,** T. (2). The influence of the congestion of the culture on the development of *Triaenophorus lucii* (Mull.) (Cestoda). Wiad. parazyt. Warszawa 2 5 Suppl.: 225–226. [English summary].

Poole, J. B. see Wolfgang, R. W.

**Pop,** V. La révision systématique du genre de Lumbricoidés *Eisentella*. Stud. Cercet. Acad. Române. Fil. Cluj. 3 1952: 172–186 2 figs. [French résumé].

**Pope,** E. C. Squirter earthworm. Aust. Mus. Mag. **11** 1955; 384–385 1 fig. Popescu, I. see Nitzulescu, V.

40

Pora, E. A. and Nitu, S. Contribution à l'étude de l'excitabilité et du rhythme d'activité chez: Actinia equina, Nereis diversicolor et Portunus holsatus de la mer Noire. Ann. Sci. Univ. Jassy (2) 31 1948: 101-118 5 figs.

Pora, E. A. and Roşca, D. I. (1). La survie du ver Polichaete *Nereis diversicolor* de la mer Noire et du lac salé d'Eforia, dans les milieux de salinités différentes. Ann. Sci. Univ. Jassy (2) **30** 1947: 204–220 3 figs.

Pora, E. A. and Rosca, D. I. (2). Le comportement aux variations de salinité. Note XXXII-e: L'effet de la sursalure des lacs de l'Eforia sur la résistance aux salinités variables de l'espèce Nereis diversicolor. Stud. Cercet. Acad. Române. Fil. Cluj 3 3-4 1952: 209-213 1 fig. [French résumé].

Pora, E. A., Wittenberger, C. and Nitu, S. La régénération chez Euplanaria gonocephala (Dugés), en fonction de la salinité et des cathions du milieu environnant. Stud. Cercet. Acad. Române, Fil. Cluj. 4 1953: 268–296 9 figs. [French résumé].

**Poynter,** D. Effect of a coliform organism (*Escherichia*) on the second ecdysis of nematode larvae parasitic in the horse. Nature, Lond. **177**: 481-482.

Pozsgi, N. see Nițulescu, N.

Premvati. (1). Cercaria reniforma n. sp. – A new monostome Cercaria from the snail, Melanoides flavidus. Proc. Indian sci. Congr. Ass. 42nd. 3. 1955: 285. [Abstract].

**Premvati** (2). On a new Metacercaria from the eyes of a fresh-water fish, *Mystus seenghala* (Sykes). Proc. Indian sci. Congr. Ass. 43rd. 3: 285. [Abstract].

**Prokopič,** J. Helminth parasites from *Sorex araneus* L. (Insectivora) in Czechoslovakia. Česk. Parasit. 3: 108–131 10 figs. [English summary].

**Prost,** E. Parasitic invasions of the fat cattle in Poland. Acta Parasit. polon. **3** 6-12: 217-231. [English summary].

**Prost,** M. Monogenoidea of the gills of Vistula fish. Wiad. parazyt.

Warszawa **2** 5 Suppl.: 259–260. [English summary].

Przyjałkowski, Z. see Czapliński, B.

Pschorn-Walcher, H. see Gunhold, P.

Puytorac, P. de and Mauret, P. Détermination de certaines des conditions écologiques propres aux différents ciliés parasites du tube digestif d'Allolobophora savigny G. et H. (Oligochète). Bull. biol. 90: 122-141 3 figs.

Qasim, S. Z. see Knight-Jones, E.

Radke, M. G. see Schneider, M. D.

Rădulescu, I. and Ionescu, N. Notă asupra prezenței acanthocephalului *Teleosentis exiguus* Kost. ca parasit la stavrid (*Trachurus trachurus* L.). Notul. biol. București **5** 1947: 323–325.

Rahm, U. Sur la présence de *Trochosphaera solstitialis* (Thorpe 1893) en Afrique. Bull. Inst. franç. Afr. N. 18A: 708-711 2 figs.

Ranade, M. R. Occurrence of *Polydora pulchra* Carazzi in British waters. Nature, Lond. **178** 1956: 929.

Randall, B. H. see Wells, W. H.

Ranzoli, F. (1). L'inversione sessuale nel Polichete *Hydroides norvegica*. Boll. Zool. **21** 1954 : 125–128.

Ranzoli, F. (2). Osservazioni preliminari sulle cellule vitelline e gli ovociti di Fasciola hepatica L. R.C. Accad. Lincei (8) 19 1955: 171–177 6 figs.

Ranzoli, F. (3). Rigenerazione e azione toracizzante nel policheti ermafrodite Salmacina incrustans. R.C. Accad. Lincei (8) 19 1955: 313–320 5 figs.

Ranzoli, F. see Vannini, E.

Rao, K. H. see Ganapati, P. N.

Rao, S. R. and Hiregaudar, L. S. A note on little known forms of *Taenia* Cyclophyllidea. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 350. [Abstract].

Rao, S. R. V. see Gideon, P. W.

Raski, D. J. Sphaeronema arenarium, n. sp. (Nematoda: Criconematidae), a nematode parasite of salt rush, Juncus leseurii Boland. Proc. helminth. Soc. Wash. 23: 75-77 1 pl.

Rasmussen, E. Faunistic and biological notes on marine invertebrates. III. The reproduction and larval development of some polychaetes from the Isefjord, with some faunistic notes. Biol. Medd., Kbh. 23: 1–84 24 figs.

Rathbone, L. Oxidative metabolism in Ascaris lumbricoides from the pig. Biochem, J. 61 1955: 574–579 1 fig.

Rausch, R. (1). Studies on the helminth fauna of Alaska. XXVIII. The description and occurrence of Diphyllobothrium dalliae n. sp. (Cestoda). Trans. Amer. micr. Soc. 75: 180–187 9 figs.

Rausch, R. (2). Studies on the helminth fauna of Alaska. XXX. The occurrence of *Echinococcus multilocularis* Leuckart, 1863, on the mainland of Alaska. Amer. J. trop. Med. Hyg. 5: 1086–1092 5 figs.

Rausch, R., Babero, B. B., Rausch, R. V. and Schiller, E. L. Studies on the helminth fauna of Alaska XXVII. The occurrence of larvae of Trichinella spiralis in Alaskan mammals. J. Parasit. 42: 259–271.

Rausch, R. and Schiller, E. L. Studies on the helminth fauna of Alaska XXV. The ecology and public health significance of Echinococcus sibiricensis Rausch and Schiller. 1954, on St. Lawrence Island. Parasitology 46: 395–419 3 text-figs 2 pls.

Rausch, R. see Voge, M.

Rausch, R. V. see Rausch, R.

Ravera, O. Amount of mud displaced by some freshwater Oligochaeta in relation to the depth. Mem. Ist. ital. Idrobiol. de Marchi 8 Suppl. 1955: 247-264 3 figs.

Ravera, O. see Corbella, C.

Ray, H. N. see Chowdhury, A. B.

Raychoudhuri, S. see Mukerji, D.

**Read,** C. P. (1). Carbohydrate metabolism of *Hymenolepis diminuta*. Exp. Parasit. 5: 325–344 3 figs.

Read, C. P. (2). Trichuris dipodomis, n. sp., from Ord's kangaroo rat. Proc. helminth. Soc. Wash. 32: 119.

Read, C. P. and Rothman, A. H. (1). Carbohydrate quantity and quality: its significance in the biology of tapeworms. J. Parasit. 42 4 Sect. 2: 31. [Abstract].

Read, C. P. and Rothman, A. H. (2). Polysaccharide metabolism in cestodes and Acanthocephala. J. Parasit. 42 4 Sect. 2:35. [Abstract].

Rebecq, J. see Dollfus, R. P.

**Reddy**, D. B. Nematode galls on a grass *Dicanthium annulatum*. Curr. Sci. **25**: 303 fig.

Rees, G. The scolex of *Tetrabothrius affinis* (Lönnberg), a cestode from *Balaenoptera musculus* L. the blue whale. Parasitology **46**: 425–442 24 figs.

Rees, K. R. see Hobson, G. E.

**Řeháčková,** V. Well-water organisms of Prague. Rozpr. české Akad. **63** 5 1953: 1–35 6 figs., map. [English summary].

Reichenbach-Klinke, H. (1). Gyrodactylus medius Kathariner in Süsswasseraquarien. Aquar. Terrar. Z. 9: 264 1, 2 figs.

Reichenbach-Klinke, H.-H. (2). Die Entwicklung der Larven bei der Bandwurmordnung Tetraphyllidea Braun 1900. Abh. braunschw. wiss. Ges. 8: 61–73 7 figs.

Reichenbach-Klinke, H.-H. (3). Muskelcercarien aus einem Zwergfadenfisch (*Colisa lalia*). Mikrokosmos **45**: 81–84 5 figs.

**Reinhard,** E. G. Parasite castration of Crustacea. Exp. Parasit. 5: 79–107.

**Reinig,** H.-J. Die ersten Furchungen bei Fadenwürmen. Mikrokosmos **46**: 1–3 2 figs.

Reisinger, E. Kärntens Hochgebirgsturbellarien. Carinthia II 65 1955: 112–151 11 figs.

Rembowska-Wachowska, M. Research on the role of the intestinal parasites in the behaviour of the "body-weight curve" of children of various ages. Wiad. parazyt. Warszawa 2 5 Suppl.: 109–110. [English summary].

**Renaud,** J. C. A report on some Polychaetous Annelids from the Miami-Bimini area. Amer. Mus. Novit. No. 1812: 1–40 21 figs. Rendtorff, R. C. Treatment of a case of *Taenia saginata* infection with diphenhydramine. J. Parasit. 42: 382.

Ribeiro, L. P. and Villela, G. G. Paper electrophoretic studies of hemoglobins from the worm *Tetrameres confusa*. A comparison with hen hemoglobins. Rev. bras. Biol. 16: 145-147 l fig.

Ribeiro, L. P. see Villela, G. G.

Riedl, R. Zur Kenntnis der Turbellarien adriatischer Schlammböden sowie ihrer geographischen und faunistischen Bezichungen. Thalassia jugosl. 1: 69–182 43 figs.

Riggin, G. T., Jr. A note on Ribeiroia ondatrae (Price, 1931) in Puerto Rico. Proc. helminth. Soc. Wash. 23: 28-29.

Riggin, G. T., Jr. and Berrios, L. A. The pig as a host of Schistosoma mansoni in Puerto Rico. J. Parasit. 42: 10.

Ringuelet, R. A. (1). Vinculaciones faunísticas de la zona boscosa nel Nahuel Huapi y el dominio zoogeografico Australcordillèrano. Notas Mus. Eva Perón 18 1955: 81–121.

Ringuelet, R. A. (2). Sobre la sanguijuela terrestre de Juan Fernandez. (*Philaemon skottsbergi* Joh., Hirudinea). Invest. zool. chil. 2 1955: 137–142, 3 figs.

Riser, N. W. (1). Observations on the plerocercoid larva of *Pelichni*bothrium speciosum Monticelli 1889. J. Parasit. 42: 31–33 1 fig.

Riser, N. W. (2). Early larval stages of two cestodes from elasmobranch fishes. Proc. helminth. Soc. Wash. 23: 120–124 5 figs.

Riser, N. W. (3). The hooks of taenioid cestodes from North American felids. Amer. midl. Nat. 36: 133–137 12 figs.

**Rizzoli,** C. Ricerche sulla composizione aminoacidica della cuticola di *Ascaris*. Boll, Soc. ital. Biol. sper. **32**: 357–361 1 pl.

Robertis, E. D. P. de and Bennett, H. S. Some features of fine structure of cytoplasm of cells in the earthworm nerve cord. Publ. Un. int. Sci. biol. (B) No. 21: 261–273 7 figs.

Roberts, L. S. Ophiotaenia grandis La Rue (Cestoda: Proteocephalidae) in McCurtain County, Oklahoma. J. Parasit. 42: 20.

Robinson, D. L. H. (1). A routine method for the maintenance of *Schistosoma mansoni in vitro*. J. Helminth. **29**: 193–202 1 fig.

Robinson, D. L. H. (2). The behaviour of young and adult *Schistosoma mansoni* in immune serum. Trans. roy. Soc. trop. Med. Hyg. **50**: 105–106.

Robinson, E. J., Jr. Two flukes, Phagicola macrostomus n. sp. and Phagicola byrdi n. sp., from the Turkey Vulture (Trematoda: Heterophyidae). J. Parasit. 42: 326-3312 figs.

Rodewald, L. Contribution à l'étude de la faune des rotifères des eaux douces et salées de la Dobrogea. 1er Mémoire. Ann. Sci. Univ. Jassy (2) 24 1938: 141-172 16 figs.

**Rogers,** R. A. A study of eggs of *Ascaris lumbricoides* var. *suum* with the electron microscope. J. Parasit. **42**: 97–108 5 pls.

Rogers, W. P. The physiological basis of parasitism. Rep. Aust. and N.Z. Ass. Advanc. Sci. 30 1955: 105–120.

Rogers, W. P. see Bird, A. F.

Rohde, R. A. see Jenkins, W. R.

Roman, E. (1). Spécificité parasitaire de *Strongyloides ratti*, du surmulot. Effets de la cortisone sur l'infestation d'autres rongeurs par ce nématode. Ann. Parasit. hum. comp. 31: 552-571.

Roman, E. (2). Nouvelle contribution à la connaissance de la faune des monogènes de la Republique Populaire Roumaine. Comun. Acad. Republ. rom. 6: 135-144 11 figs. [French résumé].

Roman, E. and Bychowsky, B. E. Un interesant trematod monogeneu-Octomacrum europaeum nov. sp. – parazit pe Alburnoides bipunctatus (Bloch). Comun. Acad. Republ. Pop. rom. 6: 901–904 1 fig. [French résumé].

Roman, E. see Lupu, E.

Ronald, K. A possible test for nematode viability. Canad. J. Zool. 34: 76–77.

Roots, B. I. The water relations of earthworms, II. Resistance to desiccation and immersion, and behaviour when submerged and when allowed a choice of environment. J. exp. biol. 33: 29-44.

Roots, B. I. see Yapp, W. B.

Rosça, D. I. La comportement aux variations de salinité. Note XXVII. La durée de survie et les variations du poids corporel chez *Hirudo officiaralis* placé dans les milieux de salinité croissante. Stud. Cercet. Acad. Române, Fil. Cluj. 1 1950: 211–222 4 figs. [French résumé].

Rosça, D. I. see Pora, E. A.

Rosenfeld, V. see Hörning, B.

Rothman, A. H. see Read, C. P.

**Rothschild,** M. A useful method for fixing larval trematodes. Pubbl. Staz. zool. Napoli **27** 1955 : 51.

Rousselet, R. see Chabaud, A. G.

**Rowan,** W. B. The mode of hatching of the eggs of *Fasciola hepatica*. Exp. Parasit. **5**: 118–137 2 pls.

Rozeboom, L. E. and Cabrera, B. D. Filariasis in the Philippine Islands. Amer. J. Hyg. **63**: 140–149.

Rubin, R. and Lucker, J. T. Acquired resistance to *Dictyocaulus viviparus*, the lungworm of cattle. Cornell Vet. **46**: 88–96.

Rubin, R. see Goldberg, A.

Ruffié, J. see Bouisset, L.

**Rühm,** W. (1). Über die Biologie und Ökologie *Sphaerularia*-artiger parasitischer Nematoden in Rüsselkäfern. Verh. dtsch. zool. Ges. **19**: 397–403, 1 fig.

**Rühm,** W. (2). Bemerkungen über die Pseudodiplogasteroidinae Körner 1954 (Nematoda). Zool. Anz. **156**: 293–299, 1 fig.

Rühmann, D. see Buchholz, H.

**Rullier,** F. La pêche planctonique de larves d'annélides polychètes et ses enseignements: Microbiotopes. C.R. Ass. franç. Av. Sci. **73** 1955: 456–457.

Rullier, F. see Petit, G.

Russell, C. R. (1). Some additions to the Rotatoria of the Chatham Islands. Rec. Canterbury (N.Z.) Mus. 7: 51-53.

Russell, C. R. (2). Some rotifers from the Fiordland district. Rec. Canterbury (N.Z.) Mus. 7: 55-59.

Ruttner-Kolisko, A. Psammonstudien III. Das Psammon des Lago Maggiore in Oberitalien. Mem. Ist. ital. Idrobiol. de Marchi 9: 365–402 9 figs.

Rybicka, K. Parasites of birds (exclusive Anseriformes) of Druzno Lake. Wiad. parazyt. Warszawa 2 5 Suppl.: 195–198. [English summary].

Ryšavý, B. (1). Padesát let vědecké činnosti akademika Konstantine Ivanoviče Skrjabina. Česk. Parasit. 3: 5–7.

Ryšavý, B. (2). Parasitische Würmer der Fledermäuse (Chiroptera) in der Tschechoslowakei. Česk. Parasit. 3: 161–179 16 figs. [German summary].

Rýšavý, B. see Erhardová, B.

Sadun, E. H., Allain, D. and Heimlich, R. A rapid and accurate nephelometric method for the quantitative determination of helminth eggs in clear suspensions. J. Parasit. 42 4 Sect. 2:11–12. [Abstract].

**Sadun,** E. H. and **Norman,** L. (1). The use of metabolic antigens in the flocculation test for studying the serological response of rabbits to graded infections with *Trichinella spiralis*. J. Parasit. **42** 4 Sect. 2:17. [Abstract].

**Sadun,** E. H. and **Norman**, L. (2). Effect of single inocula, of varied size, on the resistance of hamsters to *Trichinella spiralis*. J. Parasit. **42**: 608–612 1 fig.

Sadun, E. H., Norman, L. and Brooke, M. M. The antibody response in rabbits to the intestinal and to the extra-intestinal phases of infections with *Trichinella spiralis*. J. Parasit. 42 4 Sect. 2: 17. [Abstract].

Sadun, E. H. see Melvin, D. M.

Samarawickrama, W. A. see Niles, W. J.

Sandars, D. F. Mirandula parva gen. et sp. nov. (Cestoda, Dilepididae) from the long-nosed Bandicoot (Perameles nasuta Geoff.). J. Helminth 30: 183–188, 4 figs.

Sandars, D. F. see Baer, J. G.

Sanders, H. L. Oceanography of Long Island Sound, 1952–54. X. The biology of marine bottom communities. Bull. Bingham oceanogr. Coll. 15: 345–414 23 figs.

Sandground, J. H. see Moore, D. V.

Santa, E. della. Revision du genre *Oochoristica* Lühe (Cestodes). Rev. suisse Zool. **63**: 1–113, 3 figs.

Santa, N. and Stoica, M. (1). Observations sur l'anesthésie de *Planaria gonocephala*. Note préliminaire. Comun. Acad. Republ. Pop. rom 4 1954: 381–387. [French summary].

Santa, N. and Stoica, M. (2). L'action de la lumière solaire et des rayons ultra-violets sur *Planaria gono-cephala*. (Note préliminaire). Comun. Acad. Republ. Pop. rom. 4 1954: 633–638. [French summary].

**Santmyer,** P. H. Studies on the metabolism of *Panagrellus redivivus* (Nematoda, Cephalobidae). Proc. helminth. Soc. Wash. **23**: 30–36 5 figs.

Santos Reis, C. M. Alguns aspectos da filaríase perstans em Mocímboa da Praia. An. Inst. Med. trop., Lisbon 12 1955: 659–690.

Sardjito, M. and Koenigswald, G. H. R. von. The occurrence in Indonesia of two diseases; *Rhinoscleroma* and *Bilharsiasis japonica*, whose spread is rooted deep in the past. Philipp. J. Sci. **85**: 295–304 1 fig.

Sarmiento, L. and Stough, B. D. Troglostrongylus wilsoni (Stough, 1953) n. comb. (Nematoda: Metastrongylidae) from the lungs of the bobcat, Lynx rufus rufus. J. Parasit. 42: 45-48 l pl.

**Sarwar,** M. M. On some spirurid and filariid nematodes of birds in Pakistan. J. Helminth. **30**: 103–112 16 figs.

**Satchell,** J. E. (1). Some aspects of earthworm ecology. Soil Zoology, London, 1955: 180–201 4 figs.

**Satchell,** J. E. (2). An electrical method of sampling earthworm populations. Soil Zoology, London, 1955: 356–364 2 figs.

Satchell, J. E. see Dobson, R. M.

Satyanarayana Rao, T. S. Studies on the Chaetognatha of the Visakapatnam coast. Proc. Indian sci. Congr. Ass. 43rd. 3: 304. [Abstract]. Saudray, Y. see Lafon, M.

Saussey, M. Observations sur les relations entre la composition physicochimique du sol et son peuplement en lumbricidés. Arch. Zool. exp. gén. Notes et Rev. 93: 123–134.

Saxena, H. P. see Srivastava, A. S.

Schacher, J. F. and Faust, E. C. Occurrence of *Dioctophyma renale* in Louisiana, with remarks on the size of infertile eggs of this species. J. Parasit. **42**: 533-535.

Schad, G. A. (1). Helminths recovered from deer mice, *Peromyscus maniculatus*, trapped in the Morgan Arboretum, Macdonald College, Province of Quebec. Canad. J. Zool. 34: 208.

Schad, G. A. (2). Studies on the genus Kalicephalus (Nematoda: Diaphanocephalidae). I. On the life histories of the North American species K. parvus, K. agkistrodontis and K. rectiphilus. Canad. J. Zool. 34: 425–452 l pl. 7 figs.

Schäfer, W. Wirkungen der Benthos-Organismen auf den jungen Schichtverband. Senckenbergiana leth. 37: 183–263 2 pls., 35 figs.

Schatz, M. F. Parasites in the goose in Solzy district (Leningrad region). Trav. Soc. Nat. St. Pétersb. (Léningr.) 69 4 1947: 202-222. [English summary].

Schiller, E. L. Studies on the helminth fauna of Alaska. XXIX. Urinatrema aspinosum n. sp. (Trematoda: Zoogonidae) from the urinary bladder of the greenling, Hexagrammos superciliosus (Pallas). J. Parasit. 42: 531–532 fig.

Schiller, E. L. see Rausch, R.

Schmidt, W. J. (1). Eine verkieselte Kolonie von *Hydroides pectinata* Philippi. Jb. oberöst. Musealver. **99** 1954: 259–263 1 pl.

Schmidt, W. J. (2). Karbone Wurmröhren aus Kärnten. Carinthia II 65 1955: 97–99 1 fig.

Schneider, M. D., Radke, M. G. and Coleman, M. T. Immunologically reactive substance from *Schistosoma mansoni*. Exp. Parasit. 5:391–397.

Schofield, F. D. see Hucker, A. G.

Schumacher, W. Untersuchungen über das Eindringen der Jugendformen von Fasciola hepatica L. in die Leber des Endwirts. Z. Parasitenk. 17: 276–281 5 figs.

Schuster, M. L. see Thorne, G.

Schuster-Dieterichs, O. Die Makrofauna am sandigen Brandungsstrand von El Salvador (mittelamerikanische Pazifikküste). Senckenbergiana. Biol. 37: 1–56 6 pls., 8 figs.

Schuurmans Stekhoven, J. H. (1). New names proposed for three homonyms. Nematologica 1: 19.

Schuurmans Stekhoven, J. H. Jr. (2). Wormen- Vermes. I. Algemeen oversicht. Wet. Med. ned. natuurk. Ver. No. 19: 1-28 52 figs.

Schuurmans Stekhoven, J. H. (Jr.) (3). Daubaylia dewiti n. sp. nematode parasite de Planorbis contortus (L.). Rev. ibér. Parasit. 16: 277–282 1 fig.

Schwabe, C. W., Meier, H. and Bent. C. F. A case of dracontiasis in a New England dog. J. Parasit. 42: 651.

Schwartz, B. Parasites common to animals and man. Rep. U.S. nat. Mus. 1955; 419–431 4 pl.

Schwarz, S. Die Rotatorienfauna der Boddengebiete um Hiddensee. Wiss. Z. E.D. Arnat. Univ. Greifswald. Math.-Nat. R. 5: 409–412.

Schwetz, J. (1). Sur le réexamen partiel de trois agglomérations congolaises, examinées six ans auparavant au point de vue malaco-schistomatique: Bunia et Irumu (Haut-Ituri) et Kasenyi (lac Albert). Bull. Acad. Sci. colon. Brux. N.S. 2:1084–1095 2 figs.

Schwetz, J. (2). Some new comparative investigations on three *Physopsis* borne schistosomes: *Schistosoma haematobium*, *S. bovis* and *S. intercalatum*. Amer. J. trop. Med. Hyg. **5**: 1071–1085.

Schwetz, J., Fort, M. and Baumann, H. Double problème de l'infection bisexuée d'un seul planorbe par des cercaires de Schistosoma rodhaini et hybridation de S. rodhaini et de S. mansoni. C.R. Soc. Biol. Paris 148 15–16 1954: 1507–1509.

Sciacchitano, I. Ricerche Zoologiche sui Monti Sibillini. VII. Irudinei e Gordii dei Monti Sibillini. Mem. Mus. Civ. Stor. nat. Verona 5: 189–190.

Scott, D. M. On the specific identity of the larval *Porrocaecum* (Nematoda) in Atlantic cod. J. biol. Bd. Can. 13: 343–356 3 figs.

Scott, J. A. and MacDonald, E. M. Immunity to challenging infections of *Litomosoides carinii* produced by transfer of developing worms. J. Parasit. 42 4 Sect. 2:16. [Abstract].

Scott, J. A. see Cross, J. H.

Seamster, A. and Monaco, L. H. A new species of Rhamnocercinae. Amer. Midl. Nat. 55: 180–183 16 figs.

Seilern-Aspang, F. Fruhentwick-lung einer marinen Triclade (*Procerodes lobata*, O. Schmidt). Roux Arch. Entw. Mech. Org. **148**: 589–595, 8 figs.

**Seinhorst,** J. W. (1). Population studies on stem eelworms (*Ditylenchus dipsaci*). Nematologica 1: 159–164 fig.

**Seinhorst,** J. W. (2). The quantitative extraction of nematodes from soil. Nematologica 1: 249–267.

**Self,** J. T. and **Campbell,** J. W. A study of the helminth parasites of the buffalo fishes of Lake Texoma with a description of *Lissorchis gullaris* n. sp. (Trematoda: Lissorchiidae). Trans. Amer. micr. Soc. **75**: 397–401 5 figs.

**Selinheimo,** A. Histology of five cercariae (Trematoda: Malacocotylea). Acta zool. fenn. **92**: 1–29 9 pls.

**Sen,** P. (1). Filariasis problem in West Bengal and how to solve it. Sci. and Culture **22**: 297–299.

**Sen,** P. (2). Anopheles hyrcanus as a vector of filariasis in West Bengal. Nature, Lond. **178**: 749–750.

**Senft,** A. W. and **Weller,** T. H. Growth and regeneration of *Schistosoma mansoni in vitro*. Proc. Soc. exp. Biol. Med. **93**: 16–19 3 figs.

Senger, C. M. see Marquardt, W. C.

Seniow, A. Protein spectrum in the course of experimental Trichinosis in guinea pigs. Zool. Polon. 7: 35–43.

Serafimoska-Hadzišcě, J. Vertikole Wanderungen des Zooplanktons des Prespasees. Rec. Trav. Sta. Hydrobiol. Ohrid. 2 1954: 29–38 figs. [German summary].

**Shaikh,** S. M. Preservation of parasite ova. Brit. med. J. No. 5008: 1545.

Shivnani, G. A. see Hansen, M. F. Short, R. B. see Oliver, J. H.

Shukri, N. see Zahawi, S. al.

**Shumard,** R. F. The anthelmintic activity of powdered and liquid Parvex against Ascaridia galli and Heterakis gallinae. J. Parasit. **42** 4 Sect. 2: 13. [Abstract].

**Shumard,** R. F. and **Eveleth,** D. F. A practical method for raising lambs "parasite free" while allowing them to remain with their ewes. J. Parasit. **42**: 150.

**Siddiqui**, Q. Gall formation in the roots of *Eclipta alba* Linn. Curr. Sci. **24** 1955; 424–425.

Siewing, R. Petitia amphophthalma n. gen., n. sp., ein neuer Polychaet aus dem Sandlückensystem. Vie et Milieu 6 1955: 413–425 9 figs.

Silva, A. A. J. da. Nova espécie do gênero "Aplectana" Raillet and Henry, 1916 (Nematoda, Cosmocercidae). Mem. Inst. Oswaldo Cruz 52 1955: 415–418 5 figs.

**Silverman,** P. H. (1). The infectivity of the hexacanth embryo of *Taenia pisiformis*. Trans. roy. Soc. trop. Med. Hyg. **50**: 7.

Silverman, P. H. (2). "Predilection sites" for *Cysticercus bovis* in cattle. Trans. roy. Soc. trop. Med. Hyg. 50: 7.

**Silverman,** P. H. (3). How does *Cysticercus pisiformis* exert its pathogenic effect: Trans, roy. Soc. trop. Med. Hyg. 50:8.

Silverman, P. H. (4). The longevity of eggs of Taenia pisiformis and T. saginata under various conditions. Trans. roy. Soc. trop. Med. Hyg. 50:8.

**Silverman,** P. H. (5). Specific and non-specific *in vitro* serum reactions to active taeniid hexacanth embryos. Trans. roy. Soc. trop. Med. Hyg. 50:8.

**Simon,** L. (1). Möglichkeiten der Bekämpfung von Kartoffelnematoden. Bayer. Landw. Jahrb. 33: 96–110.

Simon, L. (2). Die Beleuchtung der Probeschalen bei der Untersuchung auf cystenbildende Nematoden. Nematologica 1: 274–000.

Sindermann, C. J. The ecology of marine dermatitis-producing schistosomes. I. Seasonal variation in infection of mud snail (Nassa obsoleta) with larvae of Austrobilharzia variglandis. J. Parasit. 42 4 Sect. 2: 27. [Abstract].

Singh, K. P. Echinorhynchotaenia lucknowensis n. sp. (Hymenolepididae: Cestoda) from darter, Anhinga melanogaster Pennart. Curr. Sci. 25: 59.

Singh, K. S. (1). Hymenolepis vogeae n. sp., from an Indian field mouse, Mus buguda Thomas, 1881. Trans. Amer. micr. Soc. 75: 252-255 6 figs.

Singh, K. S. (2). Effect of temperature on development of miracidia of Gigantocotyle explanatum (Paramphistomatidae: Trematoda). Curr. Sci. 25: 93–94.

Singh, K. S. (3). On some strigeids from India. J. zool. Soc. India 8: 47–56 5 figs.

Singh, K. S. (4). Catatropis rauschi n. sp. (Family: Notocotylidae Luhe, Trematoda) from the pintail, Dafila acuta from India. J. zool. Soc. India 8 No. 1 1956: 43–46 1 fig.

Singh, S. see Nath, V.

Sinha, P. K. and Srivastava, H. D. Studies on Schistosoma incognitum Chandler, 1926. I. On the synonymy and morphology of the blood-fluke. Parasitology 46: 91–100, 5 figs.

Sinnecker, H. Über die Bedeutung städtischer Abwässer für die Verbreitung von Infektionsmöglichkeiten. II. Die äusseren Infektketten von Taenia saginata (Goeze 1782) vom Menschen zum Rind in Kries Cottbus. Wiss. Z. Humboldt-Univ. Math.-Nat. R. 4 1955: 325–328.

**Sinzar,** D. Beitrage zur Kenntnis der entoparasiten von *Salmo trutta* L. Bull. Mus. Hist. nat. Serbe **7B** 1955: 223–229. 11 figs.

Skrjabin, K. I. Perspektiven der Sovietischen Helmintologischen Wissenschaft und Praktik. Wiad. Parazyt. 1 1955: 149–164 l fig. [German summary].

**Sláděcek,** V. (1). Zooplankton soušské nádrze s příspěvkem k methodice jehs kvantitativního stavovení. Cas. nár. Mus. **124** 1955: 151–160 9 figs. [English summary].

**Sládeček,** V. (2). A note on the occurrence of *Hexarthra fennica* Levander in Czechoslovakian Oligohaline waters. Hydrobiologia 7 1955: 64–67 6 figs.

Sledge, E. B. Pathogenicity of the spiral nematode, *Helicotylenchus nannus* Steiner, 1945, in relation to selected varieties of corn. J. Ala. Acad. Sci. 28: 123.

**Slootweg,** A. F. G. Rootrot of bulbs caused by *Pratylenchus* and *Hoplolaimus* spp. Nematologica 1: 192–201.

**Ślusarski,** W. (1). Further studies on the European representatives of Fasciola magna (Bassi, 1875) Stiles, 1894 (Trematoda). II. Distribution and life-history of the large American liver fluke in Poland. Wiad. parazyt. Warszawa 2 5 Suppl.: 165–166. [English summary].

Slusarski, W. (2). An occurrence of Aphanurus stossichi (Monticelli, 1891) Looss, 1907 in salmon, Salmo salar L. of the Baltic (Trematoda: Hemiuridae). Wiad. parazyt. Warszawa 2 Suppl. 5: 243–244. [English summary].

Ślusarski, W. see Tarczyński, S.

Smiles, J. see McFadzean, J. A.

Smith, J. E. Some observations on the neuron arrangement and fibre patterns in the nerve cord of nereid polychaetes. Pubbl. Staz. zool. Napoli 27 1955: 168–188.

Smith, L. J. see Kelley, G. W.

Smith, R. I. The ecology of the Tamar estuary. VII. Observations on the interstitial salinity of intertidal muds in the estuarine habitat of *Nereis diversicolor*. J. Mar. biol. Ass. U.K. 35: 81–104 5 figs.

Smithers, S. R. see Wright, C. A.

**Smyth,** J. D. (1). Studies on tapeworm physiology. VIII. Occurrence of somatic mitosis in *Diphyllobothrium* spp. and its use as a criterion for

assessing growth in vitro. Exp. Parasit. **5**: 260–270.

**Smyth,** J. D. (2). Studies on tapeworm physiology. IX. A histochemical study of egg-shell formation in *Schistocephalus solidus* (Pseudophyllidea). Exper. Parasit. 5: 519–540 6 figs.

Smyth, J. D. see Johri, L. N.

Sneed, K. E. see Jones, A. W.

Sobkowicz, H. see Iwanczuk, I.

Sogandares-Bernal, F. Four trematodes from Korean bats with descriptions of three new species. J. Parasit. 42: 200–206 9 figs.

Sogandares-Bernal, F. see Bravo Hollis, M.

Soeiro, A. and Morais, Tito de. O estado actual do problema das bilharzioses humanas na África oriental portuguesa. An. Inst. Med. trop., Lisboa 13: 671–678. [English summary].

Soika, A. G. Studi di ecologia e di biogeografia-XIII. Ricerche sull'ecologia e sul popolamento della zona intercotidale delle spiagge di sabbia fina. Boll. Mus. Civ. St. nat. Venezia 8 1955: 1–151 3 pls., 67 figs. [English summary].

Solomon, P. see Nitulescu, N.

Solomon, P. see Sorescu, A.

**SoItys,** A. The helminth fauna of bats (Chiroptera) of the Lublin district. Wiad. parazyt. Warszawa 2 5 Suppl.: 235. [English summary].

**Sommerville,** R. I. A note on the specific identity of *Trichostrongylus longispicularis* Gordon, 1933. J. Helminth. **30**: 21–24 6 figs.

Sonnenberg, B. see Hall, J. E.

Soota, T. D. Fauna of the Kashmir Valley: Leeches. Proc. Indian sci. Congr. Ass. 42nd. 4 1955: 10. [Abstract].

Sorescu, A., Panaitescu, D., Solomon, P., Hacig, A. and Bellu, C. Recherches helminthologiques dans la quartier "Ostrov" de Bucarest. Stud. Cercet. inframicrobiol. Acad. Repub. rom. 6 1955: 605-619 1 pl. [French résumé].

Sorescu, A. see Nitulescu, N.

**Soulsby,** E. J. L. Studies on the serological response in sheep to naturally acquired gastro-intestinal nematodes. I. Preparation of antigens and evaluation of serological techniques. J. Helminth. **30**: 129–142 5 tables, 4 graphs.

**Southey,** J. F. National survey work for cereal root eelworm. Nematologica 1:64-71.

**Spedding,** C. R. W. The control of worm-infestation in sheep by grazing management. J. Helminth. **29**: 179–186 3 tables, 4 graphs.

**Spedding,** C. R. W. and **Brown,** T. H. The "spring rise" in the nematode egg-count of sheep. J. Helminth. **29**: 171–178, 5 graphs.

Sprehn, C. and Haakh, U. Zur Morphologie des Waschbärenspulwurmes und zu seiner Stellung im System. Z. angew. Zool. 43: 95–102 8 figs.

**Sprent,** J. F. A. The life history and development of *Toxocara cati* (Schrank 1788) in the domestic cat. Parasitology **46**: 54–78, 1 pl., 29 figs.

**Šrámek-Hušek,** R. Zur biologischen Charakteristik der höheren Saprobitätsstufen. Arch. Hydrobiol. **51**: 376–390.

Srivastava, A. S. and Katujar, K. P. Effects of diazinon, salicylic acid and benzoic acid on wheat nematode. Proc. Indian sci. Congr. Ass. 43rd. 3: 286. [Abstract].

**Srivastava,** A. S. and **Saxena,** H. P. Effects of diazinon on paddy nematodes. Proc. Indian sci. Congr. Ass. 43rd. 3: 286. [Abstract].

Srivastava, H. D., and Dutt, S. C. (1). Biological studies on *Schistosoma indicum* Montgomery, 1906,—a common blood-fluke of Indian ungulates. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 353. [Abstract].

Srivastava, H. D. and Dutt, S. C. (2). Life history of Schistosoma indicum Montgomery, 1906,—a common bloodfluke of Indian ungulates. Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 354. [Abstract].

Srivastava, H. D. and Mehra, K. N. Studies on the life history of Ascaris vitulorum (Goeze, 1782), the large intestinal roundworm of bovines.

Proc. Indian sci. Congr. Ass. 42nd. 3 1955: 354. [Abstract].

Srivastava, H. D. see Deo, P. G.

Srivastava, H. D. see Dutt, S. C.

Srivastava, H. D. see Mehra, K. N.

Srivastava, H. D. see Peter, C. T.

Strivastava, H. D. see Sinha, P. K. Stammer, H. I. Die Parasiten

**Stammer,** H. J. Die Parasiten deutscher Kleinsäuger. Verh. dtsch. zool. Ges. **19** 1956 : 362–390 10 figs.

**Staniland,** L. N. "Solubilized" chemicals for the control of plant nematodes. Nature, Lond. **177** 4498: 97.

Stefański, W. (1). Les relations biocénotiques entre la faune parasitaire et la flore bactérienne du tract digestif. II. Le rôle des helminthes dans la transmission du rouget du Porc. Acta Parasit. polon. 4:521–554.

**Stefański**, W. (2). The role of the parasites as erysipelas carriers. Wiad. parazyt. Warszawa 2 5 Suppl.: 135–136. [English summary].

Stein, G. Weitere Beiträge zur Biologie von *Sphaerularia bombi* Leon Dufour 1837. Z. Parasit. **17**: 383–393 7 figs.

Steinbacher, G. see Mendheim, H.

Stephan-Dubois, F. (1). Migration et différenciation des néoblastes dans la régénération antérieure de *Lumbriculus variegatus* (Annélide Oligochète). C.R. Soc. Biol. Paris 150: 1239–1242 2 figs.

Stephan-Dubois, F. (2). Régénération postérieure atypique liée à une salinité anormale chez *Nereis diversi-color* O.F.M. C.R. Soc. Biol. Paris **150**: 1258–1261 2 figs.

Stephan-Dubois, F. (3). L'influence de la salinité sur le régénérat postérieur de *Nereis diversicolor* (O. F. Müller). C.R. Soc. Biol., Paris 149: 2218–2221. 3 figs.

Stéphan-Dubois, F. (4). Évolution du régénérat caudal de *Nereis diversicolor* après irradiation régionale aux rayons x. Bull. Soc. zool. Fr. 81: 199-207.

Stéphan-Dubois, F. and Lender, Th. Corrélations humorales dans la régenération des planaires paludicoles. Ann. Sci. nat. (Zool.) (11) 18: 223–230 5 figs. Stephen, A. C. Analosoma eddystonense sp. n., a new species of Bonelliidae. J. mar. biol. Ass. U.K. 35: 605–608.

Stephenson, W. see Endean, R.

Stinson, N. E. see Gresson, R. A. R.

Stirewalt, M. A. and Hackey, J. R. Penetration of host skin by cercariae of *Schistosoma mansoni*. I. Observed entry into skin of mouse, hamster, rat, monkey and man. J. Parasit. 42: 565–580 1 pl.

Stoica, M. see Santa, N.

Stojałowska, W. see Moniuszko-Codrow, A.

Stone, L. E. W. On the control of potato-root eelworm (*Heterodera rosto-chiensis* Wollenw.) by chlorinated phenol and p-m-cresol in solubilized form. Ann. appl. Biol. **44**: 292–306.

Stoner, R. D. see Hankes, L. V.

Stough, B. D. see Sarmiento, L.

**Stout,** J. D. Aquatic oligochaetes occurring in forest litter. I. Trans. roy. Soc. N.Z. **84**: 97–102 figs.

**Stunkard,** H. W. The morphology and life-history of the digenetic trematode, *Azygia sebago* Ward, 1910. Biol. Bull. Woods Hole **111**: 248–268 1–20 figs.

Styczyńska, E. (1). Acanthocephala in the biocoenosis of Druzno Lake. Wiad. parazyt. Warszawa 2 5 Suppl.: 245–246. [English summary].

Styczyńska, E. (2). Some observations on the biology and development of the larvae of *Filicollis anatis* Schrank (Acanthocephala). Wiad. parazyt. Warszawa 2 5 Suppl.: 247–248. [English summary].

Styczyńska, E. (3). The influence of the dessication of Galba truncatula O. F. Müller on the development and surviving of the development stages of Fasciola hepatica L. Wiad. parazyt. Warszawa 2 5 Suppl.: 261–262. [English summary].

Sudzuki, M. (1). Life history of some Japanese rotifers. I. *Polyarthra trigla* Ehrenberg. Sci. Rep. Tokyo Kyoiku Daig. **8B** 1955: 41–63 5 pls., 1 fig.

Sudzuki, M. (2). On the general structure and the seasonal occurrence

of the males in some Japanese rotifers. IV. Zool. Mag., Tokyo 65: 1-6.

**Sudzuki,** M. (3). On the general structure and the seasonal occurrence of the males of some Japanese rotifers. V. Zool. Mag., Tokyo 65: 329–334.

**Sudzuki,** M. (4). On the general structure and the seasonal occurrence of the males in some Japanese rotifers VI. Zool. Mag., Tokyo **65**: 415–421.

**Sugiura,** S. On treatment of schistosomiasis japonicum by means of Triostam (sodium antimonyl gluconate). J. Parasit. **42** 4 Sect. 2: 30. [Abstract].

Sugiura, Y. see Hoshima, T.

Sulgostowska, T. The flukes of the birds of Goldapiwo Lake. Wiad, parazyt. Warszawa 2 5 Suppl.: 199-201. [English summary].

Supperer, R. see Böhm, L. K.

Suyama, K. see Minato, M.

**Svensson,** R. (1). Intestinal parasites in Himalayan regions. Amer. J. Hyg. **64**: 158–169.

**Svensson**, R. (2). Intestinal parasites in Kathmandu, Nepal. J. Parasit. 42: 94–95.

**Sveshnikova**, N. M. A review of the study of nematodes in the Heteroderidae and Tylenchidae, causing crop diseases in the U.S.S.R. Nematologica 1:151–158.

Swartzwelder, C., Miller, J. H., Frye, W. W. and Lampert, R. Evaluation of the efficacy of piperazine adipate for the treatment of patients with trichuriasis. J. Parasit. 42 4 Sect. 2: 20. [Abstract].

Sweatman, G. K. Acquired immunity in lambs infected with *Taenia hydatigena* Pallas, 1766. J. Parasit. 42 4 Sect. 2:34. [Abstract].

**Swedmark,** B. (1). Gastrotriches marins de la région de Roscoff. Arch. Zool. exp. gén. **93** 1955 (Notes et Rev.): 10–19 5 figs.

Swedmark, B. (2). Étude de la microfaune des sables marins de la région de Marseille. Arch. Zool. exp. gén. 93 (Notes et Rev.): 70–95 7 figs.

Swietlikowski, M. Some remarks on the epizootiology of lung helminthiasis in cattle in the district of Zuławy. Wiad. parazyt. Warszawa 2 5 Suppl.: 181–183. [English summary].

Swietlikowski, M. see Czapliński, B.

Szidat, L. (1). La fauna de parasitos de *Merluccius hubbsi*. Comun. Inst. nac. B. Rivadavia Zool. **3** 1955: 1–54 37 figs.

Szidat, L. (2). Geschichte, Anwendung und einige Folgerungen aus dem parasitegenetischen Regeln. Z. Parasitenk. 17: 237–268 3 figs.

Szidat, L. (3). Über die Parasitenfauna von *Percichthys trucha* (Cuv. and Val.) Girard der patagonischen Gewässer und die Bezichungen des Wirtsfisches und seiner Parasiten zur paläarktischen Region. Arch. Hydrobiol. 51: 542–577 2 pls., 23 figs.

Szymanik-Koperska, K. Tapeworms of Anatidae at Gołdapiwo Lake. Wiad. parazyt. Warszawa 2 5 Suppl.: 205–206. [English summary].

Szymańska, H. see Kozar, Z.

Tadano, Y. and M. On the hermaphrodite of a nematode, *Rhabditis ikedai* Tadano. Zool. Mag. Tokyo **65**: 393–396 2 figs. [English summary, p. 396].

Tadič, A. Eunice rousseaui Quatr. Vorlaufiger Bericht. Bull. Mus. Hist. nat. Serbe 7B 1955: 213-221 7 figs.

Takos, M. J. see Thomas, L. J.

Tarczyński, S. (1). Study of morphology and development cycle of European form of Strongyloides ransomi Schwartz et Alicata, 1930. Acta Parasit. polon. 4: 627–661 7 figs. [English summary].

Tarczyński, S. (2). Parasitic worms of swine and wild boars in Poland. Acta Parasit. polon. 4:663-779 26 figs. [English summary].

Tarczyński, S. (3). Research on the morphology and development cycle of the European form of Strongyloides ransomi Schwartz et Alicata, 1930. Wiad. parazyt. Warszawa 2 5 Suppl.: 167–168. [English summary].

Tarczyński, S. (4). Parasitic worms of swine and boars in Poland. Wiad. parazyt. Warszawa 2 5 Suppl.: 169-170. [English summary].

Tarczyński, S. and Slusarski, W. A further note on the distribution of Wehrdickmansia cervipedis (Wehr et Dickmans, 1935) Caballero, 1945, a nematode parasite of Cervidae in Poland. Wiad. parazyt. Warszawa 2 5 Suppl.: 163–164. [English summary].

Tarjan, A. C. Known and suspected plant-parasitic nematodes of Rhode Island. II. Xiphinema americanum with notes on Tylencholaimus brevicaudatus n. comb. Proc. helminth. Soc. Wash. 23: 88–92 1 fig.

Taylor, A. L. see Golden, A. M.

Taylor, D. see Daugherty, J. W.

Taylor, D. P. see Jenkins, W. R.

Taylor, L. H. see Wallace, W. S. Taylor, R. H. see Bull, P. C.

Teixeira de Freitas, J. F. (1). Sôbre dois trematódeos parasitos de aves: Philophthalmum [sic] lachrymosus Braun, 1902 e Renicola mirandaribeiroi n. sp. Arq. Mus. nac. Rio de J. 42

Teixeira de Freitas, J. F. (2). Breve nota sobre "Opisthogoniminae" Travassos, 1928 e grupos afins (Trematoda, Plagiorchoidea). Rev. bras. Biol. 16: 141-144.

1955: 585-588 10 pls.

Teixeira de Freitas, J. F. (3). Observações sôbre as espécies sulamericanas do gênero Osvaldocruzia Travassos, 1917 (Nematoda, Strongyloidea). Rev. bras. Biol. 16: 309–315 5 figs.

Teixeira de Freitas, J. F. (4). Novo parasito de réptil de Ilha Fernando de Noronha: *Moaciria alvarengai* g. n., sp. n. (Nematoda, Subuluroidea). Rev. bras. Biol. 16: 335–339 8 figs.

Teixeira de Freitas, J. F. (5). Notas sôbre *Heterakidae* Raillet and Henry, 1914 (Nematoda, Subuluroidea). Rev. bras. Biol. **16**: 461–482.

Teixeira de Freitas, J. F. and Dobbin, J. E., Jr. Novo parasito de rá: Catadiscus propinquus sp. n. (Trematoda: Paramphistomoidea). Rev. Bras. biol. 16: 439-441 2 figs.

Tendeiro, J. Sobre um novo trematódeo digenético, Dolichoenterum manteri n. sp., parasita do safio, Conger conger (L.) algumas considerações sobre a sistemáticá da subordem Gasterostomata Odhner 1905. Bol. Soc. portug. Ciênc. nat. (2) 5 1955: 19–43 7 figs.

Tenora, F. and Baruš, V. Cysticercus taeniae taeniaeformis, Parasit. unserer Moschus-Ratten. Acta Univ. Agric. Silv., Brunn No. 2 1955: 143-146 2 pls., 1 fig.

Tenora, F. see Barus, V.

Terhaar, C. J. see Hansen, M. F.

**Teshirogi**, W. (1). The effects of lithium chloride on head-frequency in *Dugesia gonocephala* (Dugès). Bull. mar. biol. Sta. Asamushi **7** 1955: 141–146 2 figs.

**Teshirogi,** W. (2). Transplantation of the ganglionic region into the posterior levels of the turbellarian *Bdellocephala brunnea*. Sci. Rep. Tôhoku Univ. (4) **22**: 197–206 4 figs.

**Teshirogi,** W. (3). Effects of sodium thyocyanate and lithium chloride on regeneration in a turbellarian *Bdellocephala brunnea*. Zool. Mag., Tokyo **65**: 30–36.

Themann, H. Die experimentelle Rattentrichinose unter dem Einfluss von Calciumbehandlung. Z. Parasitenk. 17: 300–329 10 figs.

**Théodoridés,** J. Contribution à l'étude des parasites et phorétiques de coléoptères terrestres. Vie et Milieu Suppl. No. 4 1955: 1–310 57 figs.

Théodoridès, J. see Campana-Rouget, Y.

**Thomas**, J. D. Life history of *Phyllodistomum simile* Nybelin. Nature, Lond. **178**: 1004.

Thomas, L. J. and Babero, B. B. (1). Studies on rodent echinococcosis. J. Parasit. 42 4 Sect. 2: 40. [Abstract.]

Thomas, L. J. and Babero, B. B. (2). Some helminths of mammals from St. Lawrence Island, Alaska, with a discussion on the nomenclature of *Echinococcus* in voles. J. Parasit. 42:500.

Thomas, L. J. and Babero, B. B. (3). Observations on the infectivity of *Echinococcus* eggs obtained from foxes (*Alopex lagopus* Linn.) on St. Lawrence Island, Alaska. J. Parasit. 42: 659.

Thomas, L. J. and Takos, M. J. The pathology and pathogenesis of

fatal infections due to an acanthocephalid parasite of marmoset monkeys. J. Parasit. **42** 4 Sect. 2: 39–40. [Abstract.]

Thorne, G. and Schuster, M. L. Naccobus batatiformis, n. sp. (Nematoda: Tylenchidae), producing galls on the roots of sugar beets and other plants. Proc. helminth. Soc. Wash. 23: 128–134 3 figs.

Thorson, R. E. (1). Proteolytic activity in extracts of the esophagus of adults of Ancylostoma caninum and the effect of immune serum on this activity. J. Parasit. 42: 21–25.

Thorson, R. E. (2). The effect of extracts of the amphidial glands, excretory glands, and esophagus of adults of *Ancylostoma caninum* on the coaglutation of dog's blood. J. Parasit. 42: 26–30.

Thorson, R. E. (3). The stimulation of acquired immunity in dogs by injections of extracts of the esophagus of adult hookworms. J. Parasit. 42 4 Sect. 2: 14. [Abstract.]

Thorson, R. E. (4). The stimulation of acquired immunity in dogs by injection of extracts of the esophagus of adult hookworms. J. Parasit. 42: 501-504.

Threadgold, L. T. see Gresson, R. A. R.

**Timm,** R. W. Marine nematodes from the bay of Bengal. I. Phasmidea. J. Bombay nat. Hist. Soc. **54**: 87–90 l pl.

**Timon-David,** J. Contribution à la connaissance du cycle évolutif des Dicrocoeliidae (Trematoda, Digenea): développement expérimental de *Brachylecithum alfortense* (Railliet) Dollfus, 1954. C.R. Acad. Sci. Paris **242**: 1374–1376.

Timon-David, J. see Dollfus, R. P.

Tiner, J. D. Anti-trichostrongyle activity of phenothiazine demonstrated in vitro. J. Parasit. 42 4 Sect. 2: 14–15. [Abstract].

Todd, A. C. see Campbell, W. C.

Tokioka, T. (1). A small collection of chaetognaths and pelagic tunicates from the North Eastern part of the Indian Ocean. Publ. Seto mar. biol. Lab. 5 1955: 75–78 3 figs.

**Tokioka,** T. (2). On chaetognaths and appendicularians collected in the central part of the Indian Ocean. Publ. Seto Mar. biol. Lab. 5: 197–202 map.

**Tokioka,** T. (3). On chaetognaths and appendicularians collected by Mr. Z. Sagara in the Arafura Sea in May-August 1955. Publ. Seto mar. biol. Lab. 5: 203–208 map.

**Tólp, Ö.** Über das Benthos des Flusses Emajógi. Loodus. Seltsi Aast. **49**: 143–160 2 figs. [German summary p. 17].

Tonn, R. J. Observations on some helminths of the mountain toad, *Bufo boreas boreas*, in Colorado. J. Colo-Wyo. Acad. Sci. **4** 1955: 63.

Toxopeus, H. J. Some remarks on the development of new biotypes in *Heterodera rostochiensis* that might attack resistant potato-clones. Nematologica 1: 100–101.

**Travassos,** L. Sôbre dois novos Dicrocoeliidae de Chiroptera. An. Acad. bras. Cienc. **27** 1955 : 561–565 6 figs.

Travassos-Santos Dias, J. A. Duas novas espècies de microfilaria parasitas do *Raphicerus campestris zuluensis* Roberts, 1946. An. Inst. Med. trop., Lisbon 12 1955 : 713–719 1 pl. [English summary].

**Travé**, J. Le nématode phorétique *Cheilobus quadrilabiatus* Cobb sur des Oribates (Acariens). Vie et Milieu **7** 110–112 1 fig.

**Tregouboff,** G. Rapport sur les travaux concernant le plancton Meditérranéen publiés entre Novembre 1952 et Novembre 1954. Rapp. Comm. int. Mer. Médit. **13**: 65-100.

Trimm, W. Untersuchungen mit Strongyloides ransomi (Schwartz und Alicata 1930) und S. papillosus (Wedl 1856) beim Kaninchen. Wiss. Z. Humboldt-Univ. Math.-Nat. R. 4 1955: 329–336.

Tu, C. M. see Chin, T. H.

Tuin, F. van der see Janzen, G. J.

Turnbull, E. R. Gyrodactylus bullatarudis n. sp. from Lebistes reticulatus Peters with a study of its life cycle, Canad. J. Zool. 34: 583-594 19 figs.

Turner, D. S. see Hansen, M. F.

Turner, J. A. see Voge, M.

Turner, J. H. Further studies on strongyloidiasis in lambs and kids: development of acquired resistance. J. Parasit. 42 4 Sect. 2: 18–19. [Abstract].

**Twohy,** D. W. The early migration and growth of *Nippostrongylus muris* in the rat. Amer. J. Hyg. **63**: 165–185.

Ulmer, M. J. Development of Cotylurus flabelliformis tetracotyles in the second intermediate host (Trematoda: Strigeidae). J. Parasit. 42 4 Sect. 2:39. [Abstract].

Ungria, C. D. Cestodes de Venezuela: 1.—Especies señaladas hasta la fecha. Mem. Soc. Cienc. nat. La Salle 15 1955: 189-244 79 figs.

Uschakov, P. V. Polychaetes of the family Pisionidae Levinsen inhabiting the seas of the USSR. Zool. Zh. 35: 1809–1813 3 figs. [Russian, with English summary, p. 6].

[Uspenskaya, A. V.] [Life-cycle of the nematodes belonging to the genus *Ascarophis* van Beneden]. Zool. Zh. **32** 1953: 828–832 4 figs. [In Russian].

Utinomi, H. On the so-called "Umi-utiwa," a peculiar flabellate Gorgonacean, with notes on a syllidean Polychaete commensal. Publ. Seto mar. biol. Lab. 5: 243–250 1 pl., 2 figs.

Vajrasthira, S. see Headlee, W. H.

Van der Laan, P. A. The influence of organic manuring on the development of the potato root eelworm, *Heterodera rostochiensis*. Nematologica 1: 112–125.

Van Meel, L. see Leloup, E.

Vannini, E. and Ranzoli, F. Rigenerazione, schizogonia e maturazione sessuale nel polichete ermafrodita Salmacina incrustans. Boll. Zool. 21 1954: 467–479, 3 figs.

Varma, A. K. Some observations on the morphology and pathogenicity of *Moniezia expansa* (Rudolphi, 1810). Indian J. vet. Sci. **26** Pt. 3: 103–107 2 figs.

Vasilia, N. Contributions à la connaissance des cercaires d'eau douce de la Roumaine. Notat. biol., București 6 1948: 161–165.

Vernberg, W. B. and Hunter, W. S. Quantitative determinations of the glycogen content of *Gynaecotyla adunca* (Linton 1905). Exper. Parasit. 5: 441-448 1 fig.

Viaud, G. Inversion du sens du galvanotropisme de *Planaria* (= *Dugesia*) *lugubris* O. Schm. par l'action de radiations visibles et ultraviolette polarisées. C.R. Soc. Biol., Paris 149: 2221–2224 2 figs.

Vigueras, I. P. Contribution al conocimiento de la fauna helminthologica cubana. (Continuación). Mem. Soc. cubana Hist. nat. 23: 1-36 59 figs.

Vik, R. Invasion of Skrjabingylus (Nematoda) in Norwegian Mustelidae. Nytt Mag. Zool. 3 1955: 70–78 2 figs.

Villela, G. G. and Ribeiro, L. P. Hemoglobins in the worm *Tetrameres confusa*. Rev. bras. Biol. **15** 1955: 383–390 5 figs.

Villela, G. G. see Ribeiro, L. P.

Vincent, G. see Jacquemin, P.

Vlastov, B. V. Proales lenta, sp. n. and Pleurotrocha larvarum sp. n. two new forms of Rotifera of the family Notommatidae. Zool. Zh. 35 No. 5:668-677 10 figs. [Russian, with English summary, p. 5].

Voge, M. (1). A list of cestode parasites from California mammals. Amer. Midl. Nat. 54 1955: 413–417.

Voge, M. (2). Studies on the life history of *Hymenolepis citelli* (McLeod, 1933) (Cestoda: Cyclophyllidea). J. Parasit. **42**: 485–490 l pl.

**Voge,** M. (3). A list of nematode parasites from California mammals. Amer. midl. Nat. **56**: 423–429.

Voge, M. and Rausch, R. Observations on *Shipleya inermis* Fuhrmann, 1908 (Cestoda: Acoleidae). J. Parasit. **42**: 547–551 l pl.

Voge, M. and Turner, J. A. (1). The effect of different temperatures on the development of *Hymenolepis diminuta* (Cestoda: Cyclophyllidea) in *Tribolium confusum*. J. Parasit. 42 4 Sect. 2:31. [Abstract].

Voge, M. and Turner, J. A. (2). Effect of temperature on larval development of the cestode, *Hymenolepis diminuta*. Exper. Parasit. 5: 580–586 1 fig.

Vošta, J. Darmparasiten Kinder in Umgebung von Tábor. Čsl. parasit. 2 1955: 177–180. [German summary].

**Vovelle,** J. Processus glandulaires impliqués dans la reconstitution du tube chez *Pomatoceros triqueter* (L.) Annélide Polychète (Serpulidae). Bull. Lab. marit. Dinard No. 42: 10–32 12 figs.

Vuylsteke, A. Note sur quelques Nématodes parasites avec description de neuf espèces nouvelles. Rev. Zool. Bot. afr. 53: 441-477, 87 figs.

Wagner, A. see Penner, L. P.

Wagner, E. D. see Parmelee, W. E.

Waletzky, E. see Wallace, W. S.

Wallace, H. R. (1). Migration of nematodes. Nature, Lond. 177: 287–288 2 figs.

Wallace, H. R. (2). Soil aeration and the emergence of larvae from cysts of the beet eelworm, *Heterodera schachtii* Schm. Ann. appl. Biol. **44**: 57–66 5 figs.

Wallace, H. R. (3). The effect of soil structure on the emergence of larvae from cysts of the beet eelworm. Nematologica 1: 145-146.

Wallace, H. R. (4). The seasonal emergence of larvae from cysts of the beet eelworm, *Heterodera schachtii* Schmidt. Nematologica 1: 227–238.

Wallace, H. R. (5). The emergence of larvae from cysts of the beet eelworm, *Heterodera schachtii* Schmidt, in aqueous solutions of organic and inorganic substances. Ann. Appl. Biol. 44: 274–282 7 figs.

Wallace, W. S., Hewitt, R. I., Taylor, L. H., Jr. and Waletzky, E. Effects against dog ascarids of low daily doses of Caricide R in the feed. J. Parasit. 42 4 Sect. 2: 12. [Abstract].

Walsh, M. P. Nucleolar substances in *Lumbricus terrestris* (L.). Trans. Amer. micr. Soc. **75**: 75–78.

Ward, H. L. A new species of Centrorhynchus (Acanthocephala) from the kite, Milvus migrans, in Egypt. J. Parasit. 42: 39-41 l pl.

Ward, J. W. and Bradshaw, R. C. New records of the occurrence of the hydatid tapeworm, *Echinococcus granu-*

losus, in central and south Mississippi. J. Parasit. 42 4 Sect. 2: 35. [Abstract].

Warda, L. see Kozar, Z.

Watanabe, Y. Axial differential in experimental change of the pigment colour in the development of *Lumbriconereis latreilli*. Annot. zool. jap. 29: 138-145 1-14 figs.

Weber, R. Zur Verteilung der Mitochondrien in frühen Entwicklungsstadien von *Tubifex*. Rev. suisse Zool. **63**: 277–288 4 figs.

Webster, G. A. (1). A new genus for Arthrocephalus lotoris (Schwartz, 1925) Chandler, 1942. Canad. J. Zool. 34: 99–103, 5 figs.

Webster, G. A. (2). A preliminary report on the biology of *Toxocara canis* (Werner, 1782). Canad. J. Zool. **34**: 725–726.

Webster, G. A. and Wolfgang, R. W. Alaria canadensis sp. nov. and Euryhelmis pyriformis sp. nov. from the skunk Mephitis mephitis in Quebec. Canad. J. Zool. 34: 595-601 7 figs.

Webster, J. D. A new hymenolepidid tapeworm from the fox sparrow. Proc. Ind. Acad. Sci. 61 1955: 305–307 1 fig.

Wehr, E. E. and Herman, C. M. Lophortofilaria californiensis n. g., n. sp. (Filarioidea, Dipetalonematidae) from California quail, Lophortyx californicus, with notes on its microfilaria. J. Parasit. 42: 42–44 l pl.

Weinstein, P. P. and Jones, M. F. (1). The *in vitro* cultivation of *Nippostrongylus muris* to the adult stage. J. Parasit. **42**: 215–236, incl. 4 pls.

Weinstein, P. P. and Jones, M. F. (2). The effects of vitamins and protein hydrolysates on the growth in vitro of the free-living stages of Nippostrongylus muris under axenic conditions. J. Parasit. 42 4 Sect. 2: 14. [Abstract].

Weiser, J. and Köhler, W. Nematoden als Schmarotzer der Blattwespe Acantholyda nemoralis Th. in Polen. Csl. parasit. 2 1955: 185–190 2 figs. [German summary].

Weller, T. H. see Senft, A. W.

Wells, W. H. A cursory survey of human intestinal parasites in the

nomadic people of southern Turkey. J. Parasit. 42: 535.

[1956]

Wells, W. H. and Randall, B. H. New hosts for trematodes of the genus Heterophyes in Egypt. J. Parasit. 42: 287–292 1 fig.

Welsh, J. F. see Heyneman, D.

Werner, B. Über die Winterwanderung von Arenicola marina L. (Polychaeta sedentaria). Helgoländ. wiss. Meeresuntersuch. 5: 353–378.

Wertejuk, M. Research on the influence of the environmental conditions on invasional larvae of the gastro-intestinal nematodes of sheep. Wiad. parazyt. Warszawa 2 5 Suppl.: 159–160. [English summary].

Westblad, E. Marine "Alloeocoels" (Turbellaria) from North Atlantic and Mediterranean coasts. II. A new freshwater *Plagiostomum* species. Ark. Zool. 9: 131-174.

Wharton, R. H. see Edeson, J. F. B. White, R. H. R. Piperazine adipate in threadworm infestation. Brit. Med. J. No. 5005: 1369.

Whittaker, W. A. see Holt, P. C.

Wieser, W. The attractiveness of plants to larvae of root-knot nematodes. II. The effect of excised bean, eggplant and soybean roots on *Meloidogyne hapla* Chitwood. Proc. helminth. Soc. Wash. 23: 59-64 3 figs.

Wieser, W. see Brinck, P.

Wilcke, D. E. Oligochaetén aus der Sahara und dem nördlichen Sudan. Zool. Anz. 157: 102–110 1 text fig.

Williams, F. P. see Habermann, R. T.

Williams, J. E. see Frick, L. P.

Williams, T. D. The resistance of potatoes to root eelworm. Nematologica 1:88-93.

Williams, T. D. and Winslow, R. D. A synopsis of some laboratory techniques used in the quantitative recovery of cyst-forming and other nematodes from soil. Soil Zoology, London, 1955: 375–384 7 figs.

Williamson, D. I. The plankton in the Irish Sea, 1951 and 1952. Bull. mar. Ecol. 4: 87–114 15 pls.

Wilson, G. I. Some parasites of the English sparrow in Maryland. J. Parasit. **42** 4 Sect. 2: 40. [Abstract].

Wilson, T. Differences between the microfilariae of Wuchereria malayi and Wuchereria bancrofti in Giemsastained thick blood films. Trans. roy. Soc. trop. Med. Hyg. 50: 54-57.

Wilson, W. L. see Heilbrunn, L. V.

Winslow, R. D. (1). The hatching responses and host ranges of some root eelworms (*Heterodera* spp.). Abstr. Diss. Univ. Cambridge 1953–54: 6-7.

Winslow, R. D. (2). Seasonal variations in the hatching responses of the potato-root eelworm, *Heterodera rostochiensis* Wollenweber, and related species. J. Helminth. 30: 157–164.

Winslow, R. D. see Williams, T. D. Winter, K. B. see Honess, R. F.

Wiśniewski, W. L. Research on the parasites of Goldapiwo Lake.

the parasites of Goldapiwo Lake. Wiad. parazyt. Warszawa 2 5 Suppl.: 213–215. [English summary].

Wiszniewski. I. Matériaux relatifs

Wiszniewski, J. Matériaux relatifs à la nomenclature et à la bibliographie des Rotifères. Polsk. Arch. Hydrobiol. 2 1954: 7–249.

Wittenberger, C. see Pora, E. A.

Wolfgang, R. W. (1). Helminth parasites of reptiles, birds and mammals in Egypt. II. Catenotaenia aegyptica sp. nov. from myomorph rodents with additional notes on the genus. Canad. J. Zool. 34: 6–20 16 figs.

Wolfgang, R. W. (2). Dochmoides yukonensis sp. nov. from the brown bear (Ursus americanus) in the Yukon, Canad. J. Zool. 34: 21–27 6 figs.

Wolfgang, R. W. (3). An additional note on the distribution of *Biacantha desmoda*. Canad. J. Zool. 34: 209.

Wolfgang, R. W. and Poole, J. B. Distribution of *Echinococcus* disease in northwestern Canada. Amer. J. trop. Med. Hyg. 5: 869–871.

Wolfgang, R. W. see Webster, G. A. Wolowska, H. see Iwanczuk, I.

Wood, E. J. F. Effect of temperature and rate of flow on some marine fouling organisms. Aust. J. Sci. 18 1955: 34-37 6 figs.

Wright, C. A. (1). Studies on the life-history and ecology of the trema-

tode genus *Renicola* Cohn, 1904. Proc. zool. Soc. Lond. **126**: 1–49 2 pls., 48 figs.

Wright, C. A. (2). Bulinus (Pyrgo-physa) forskalii (Ehrenberg) as a vector of Schistosoma haematobium. Nature, Lond. 177: 43.

Wright, C. A. and Smithers, S. R. A new echinostome trematode, *Pameileenia gambiensis* gen. et sp. nov. from the intestine of a colubrid snake in West Africa. J. Helminth. 30: 113–118 3 figs.

Wright, H. G. S. (1). Sidelights on aquatic microscopic life. The wandering eyes of Rotifera. Microscope 10 1955: 145–149 2 figs.

Wright, H. G. S. (2). Sidelights on aquatic microscopic life. Revolution and counter-revolution. Microscope 10 1955: 178–181 2 figs.

Wright, H. G. S. (3). Sidelights on aquatic microscopic life. Egg capsules of flatworms and crests of Bryozoa. Microscope 10 1955: 202–204 2 figs.

Wright, H. G. S. (4). Sidelights on aquatic microscopic life. Thriving under difficulties. Microscope 10: 253-257 2 figs.

Wright, H. G. S. (5). Sidelights on aquatic microscopic life. A rotifer's "fingerprints" and some remarks on behaviour. Microscope 10: 285–290 3 figs.

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Wulfert, K. (1). On the feeding habits of the Rotatoria. Microscope 10: 309-313 9 figs.

Wulfert, K. (2). Rädertieré – natürliche Kunstformen. Mikrokosmos 45: 257–260 5 figs.

Wulfert, K. (3). Über das Sammeln, Versenden, Konservieren und Bestimmen von Rotatorien. Mikrokosmos 46: 59–61.

Wulfert, K. (4). Die Rädertiere des Teufelssees bei Friedrichshagen. Arch. Hydrobiol. 51: 457–495 54 figs.

Wykoff, D. E. and Altmann, S. A. Ovicidal activity of certain compounds on the embryonated eggs of Ascaris lumbricoides. J. Parasit. 42:504.

Xavier, A. S. see Gomes, F. C.

Yamao, Y. On the fluorescent substances present in the tissues of the

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Yamao, Y. and Makino, N. Studies on regeneration of a sea-planarian. J. Coll. Sci. Chiba Univ. Nat. Sci. Soc. 1 1955: 259–262 2 figs. [In Japanese].

Yanagesawa, T. On the structure and formation process of the egg-shell of *Ascaris* ova. Jap. J. med. Sci. and Biol. 8 1955: 379–390 2 pls.

Yapp, W. B. and Roots, B. I. Locomotion of worms. Nature, Lond. 177: 614–616 1 fig.

Yeh, L. S. (1). Morphological abnormalities in the human liver fluke *Clonorchis sinensis*. Trans. roy. Soc. trop. Med. Hyg. 50: 2.

Yeh, L. S. (2). Testicular abnormalities in some echinostomes. Trans. roy. Soc. trop. Med. Hyg. 50: 2.

Yeh, L. S. (3). Larval *Tentacularia* sp. in the flesh of barracuda fish sold in the market in the West Indies. Trans. roy. Soc. trop. Med. Hyg. 50:2.

Yeh L. S. (4). On a collection of helminths from Thomson's gazelle, Gazella thomsoni, from Tanganyika. J. Helminth. 29: 203–228 46 figs.

Yeh L. S. (5). On some helminths from a king cobra in Malaya including Occipitodontus edesoni n. sp. and Ophiotaenia kuantanensis n. sp. J. Helminth. 30: 211-216 8 figs.

Yeh L. S. (6). On Kalicephalus hong-kongiensis n. sp. from Elaphe moelendorffi and the erection of a new genus, Kalicephaloides. J. Helminth. 30: 203-210 11 figs.

Young, R. T. A review of the genus *Echeneibothrium*. J. Wash. Acad. Sci. **46**: 256–265.

Yutuc, L. M. (1). On the unusual hatching posture of the embryo of Trichuris vulpis in vitro. J. Parasit. 42 4 Sect. 2: 20. [Abstract].

Yutuc, L. M. (2). The extracorporeal hatching of embryonated ova of *Trichuris vulpis* (Froelich, 1789). Philipp. J. Sci. **85**: 241–247 1 pl.

Zahawi, S. al and Shukri, N. Histopathology of fatal myocarditis

due to ectopic schistosomiasis. Trans. roy. Soc. trop. Med. Hyg. 50: 166-168.

Zarnowski, E. (1). The helminth fauna of small forest mammals (Insectivora and Rodentia) of the neighbourhood of Puławy II. Trematoda. Wiad. parazyt. Warszawa 2 5 Suppl.: 239. [In Polish].

Zarnowski, E. (2). Parasitic worms of forest micromammalians (Rodentia and Insectivora) of the environment of Puławy (district Lublin). I. Cestoda. Acta Parasit. polon. 3: 279–368 20 figs. [English summary].

Zarnowski, E. (3). Fox (Vulpes vulpes L.) as a natural host of the fluke Mammorchipedum isostomum (Rudolphi, 1819)—syn. Orchipedum isostomum (Rudolphi, 1819). Acta Parasit. polon. 4: 609-618 1 fig.

**Zarzycki,** J. An unknown way of self-defence of the host invaded by trichina. Acta Parasit. polon **4**: 619–626 [English summary].

Zavadil, R. Druhové znaky a rozšířeni cizopasníku Syngamus trachea a Syngamus (Ornithogamus) merulae. Čsl. parasit. 2 1955: 201–209 11 figs. [German summary].

**Zázvorka,** V. Conodonti nálezí rybám nebo plzúm : Čas. nár. Mus. Odd. Přírod. **125** 1 : 81–84 5 figs.

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Zenkevich, L. A. and Konstantinova, M. I. Locomotion and the motor system of Rotifera. Zool. Zh. 35 No. 3: 345–364 16 figs. [Russian, with English summary, p. 4].

Ziegler, W. Unterdevonische Conodonten, insbesondere aus dem Schönauer und dem Zorgensis-Kalk. Notizbl. hess, Landesamt. Bodenforsch. 84: 93–106 2 pls.

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**Zieliński**, Z. Research on the enzooty of *Cystocaulus ocreatus* in Poland. Wiad. parazyt. Warszawa **2** 5 Suppl.: 179–180. [English summary].

Zwillenberg, L. O. Bacteriologically sterile planarians for tissue culture. Nature, Lond. 178: 1183.

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eggs in clear suspensions, Sadun, E. H., Allain, D. & Heimlich, R.; Quantitative extraction of nematodes from soil, Seinhorst, J. W. (2); Preservation of helminth eggs, Shaikh, S. M.; Method for controlling nematodes in lambs, Shumard, R. F. & Eveleth, D. F.; Illumination method for identification of Heterodera cysts, Simon, L. (2).

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Museum collections.—Gordiids in collection of Zoological Museum, Zagreb, Canadjija, S.

Obituaries-†Adolpho Lutz, Anon: Deane, M. P.; †Tom Goodey, Bawdon, F. C.

#### STRUCTURE

General.—Morphology of Ascaridia galli, Frenzen, K.; Morphology of bovine nematode larvae, Hansen, M. F. & Shivnani, G. A.; Morphology of Ascaris, Toxocara, Necator, Ancylostoma and Strongyloides larvae, Nichols, R. L.

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#### PHYSIOLOGY

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(2); Survival of infective larvae of ovine gastro-intestinal nematodes in variable climatic conditions, Wertejuk, M.

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Growth.—Variations in growth in Caenorhabditis elegans, Nigon, V. & Dougherty, E. C.; Relative growth in Porrocaecum decipiens larvae, Scott, D. M.; Growth of Nippostrongylus in rat, Twohy, D. W.

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## EVOLUTION AND GENETICS

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Genetics.—Race "X" of Ditylenchus dipsaci, Goodey, J. B. & Brown, E. B.

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#### ETHOLOGY

Ecology.—Ecological comparison between marine nematodes of Norway and the antarctic-subantarctic regions, Allgén, C. A. (1); Comparison between marine nematodes of Norway and the Atlantic coasts of Europe, Allgén, C. A. (2); Comparison between marine nematodes of Norway and the northeastern area of the Mediterranean, Allgén, C. A. (3); Bionomics of zoophagous and phytophagous nematodes, **Dieter**, A.; Ecological notes on free-living nematodes in Italian coastal waters, Gerlach S. A. (2); Ecological notes on Austrian soil-nematodes, Gunhold, P. Pschorn-Walcher, H.; Biology of Sphaerularia bombi, **Hattingen**, R. (2); Ecology of nematodes in peat of Harz mountains, Kischke, U.; Nematode populations in various cultivated Dutch soils, Oostenbrink, M. et al.; Ecology of nematodes in well-waters of Prague, **Řeháčková**, V.; Ecology of Sphaerularia, Ruhm, W. (1); Ecology of helminthiasis in domestic geese, Schatz, M. F.; Populations of Ditylenchus dipsaci, Seinhorst, J. W. (1); Biology of Sphaerularia bombi, Stein, G.; Biological notes on Toxocara canis, Webster, G. A. (2).

Immunobiology: Serology.-Inheritance of resistance to stem nematodes in clover, Bingefors, S.: Influence of host-age on helminths in rabbits, Bull, P. C. & Taylor, R. H.; Influence of age on immunity in cats, dogs and foxes in nematode infest-ation, **Boch**, J. (2); Resistance of Citrus hybrids to Tylenchulus semipene-trans, **Cameron**, J. W., **Baines**, R. C. & Clarke, O. F.; Dual antibody response to trichinosis, **Chute**, R. M.; Immunity in white rat to Nematospiroides dubius, Cross, J. H. & Scott, J. A. (1); Host resistance to Meloido-gyne in W. Africa, Edwards, E. E.; Susceptibility of potato varieties to Ditylenchus spp., Goodey, J. B. (1); Importance of egg-shell to infectivity of Ascaridia galli larva, Hansen, M. F. et al.; Age-resistance in cattle to parasitic nematodes, Herlich, H. (1); Resistance to the potato-root eelworm, Huijsman, C. A.; Precipitin reaction to trichina extract, Jeziorańska, A.; Immunology of Ascaris infection, Jeziorańska, A. & Dobrowolska, H. (1); Nature and specificity of Ascarid antigens, Kagan, I. G.; Serology of trichinosis, Kagan, I. G. Bargai, U.; Susceptibility of soybean varieties to Heterodera schachtii var. trifolii, Mankau, G. R. & Linford, M. B.; Reactions in Gammarus and ducks to Polymorphus infestation, Pflugfelder, O.; Test for nematode viability, Ronald, K.; Acquired resistance in cattle to Dictyocaulus viviparus, Rubin, R. & Lucker, J. T.; Serological response of rabbits to Trichinella spiralis, Sadun, A. H. & Norman, L. (1); Sadun, E. H., Norman, L. & Brooke, M. M.; Effects of graded inoculation of Trichinella on resistance in hamsters, Sadun, E. H. & Norman, L. (2); Immunity in cotton-rats to super-imposed infections of *Litomosoides*, Scott, J. A. & MacDonald, E. M.; Protein spectrum in trichinosis in guinea-pigs, **Seniow**, A.; Serology in sheep nematode infections, **Soulsby**, E. J. L.; Effect of immune serum on

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Economics: Control.—Effect of DD treatment of soil on Heterodera rostochiensis populations, Bijloo, J. D. & Boogaers, P. A. M.; Control of Onchocerca vovulus in the Upper Volta, Blanc, M.; Chemical control of the potato-root eelworm, Brande, J. van den, et al.; Control of phytoparasitic nematodes, Chitwood, B. G. & Birchfield, W.; Fungi preying on soil nematodes, Duddington, C. L.; Effect of predacious fungus on Heterodera rostochiensis, Duddington, C. L., et al. (1); Effect of predacious fungus and organic matter on Heterodera schachtii, Duddington, C. L., et al. (2); Utilization of predatory fungi in nematode control, Gorlenko, M. V.; Soil mixing for nematode control, Grainger, J. (1); Control of Ditylenchus dipsaci on oats, Grainger, J. (2); Action of latex from Ficus on

nematodes of chickens, Guevara, D.; Effects of antibiotics, phenothiazine and sodium fluoride on oxyurids in mice, Habermann, R. T. & Williams, F. P.; Mass treatment with piperazine in control of Enterobius in children, Hill, R. D., White, R. H. R.; Efficacy of piperazine compounds against Trichuris trichiura in man, Hucker, A. G. & Schofield, F. D. Effect of chlorination on Ascaris eggs in sewers, Iwańczuk, I. & Dozańska, W.; Economic importance of helminth infestation of fish in the Wegorzewo Fisheries, Poland, Kozicka, I. (2): Helminths extracts stimulating trap-forming substances in predatory fungi, Lamy, L.; Effect of phenothiazine on Ostertagia larvae in bovine faeces, Landram, J. F. & Cauthen, G. E.; Relation of pasture-rotation to acquisition of nematodes by sheep, Levine, N. D. et al.; Control of filariasis in West Bengal, Sen, P. (1); Effectiveness of Parvex against heterakids in chickens, Shumard, R. F.; of Heterodera rostochiensis, Simon, L. (1); Control of root-rot in bulbs, Slootweg, A. F. G.; Nematode control by grazing management of sheep; Spedding, C. R. W.; Field-trials against Anguillulina tritici in India, Srivastava, A. S. & Katiyar, K. P.; Effects of diazinon on nematodes in paddy-fields, Srivastava, A. S. & Saxena, H. P.; Effectiveness of solubilized chemicals in control of plant-nematodes, Staniland, L. N.; Control of Heterodera rostochiensis by solubilized phenols and cresols, Stone, L. E. W.; Efficacy of piperazine adipate against Trichuris in man, Swartzwelder, C. et al.; Effect of phenothiazine on Obeliscoides cuniculi and Trichostrongylus calcaratus, Tiner, J. D.; Efficacy of Caricide against ascarids in dogs, Wallace, W. S. et al.; Effects of various molluscicides on Ascaris lumbricoides eggs, Wykoff, D. E. & Altmann, S. A.

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Philaemon skottsbergi Joh. redescr. from Juan Fernandez, p. 137 figs., Ringuelet, R. A. (2).

### **GEPHYREA**

Amalosoma eddystonense sp. nov., southern England, p. 605, Stephen, A. C.

Aspidosiphon Dies., defined p. 305, hartmeyeri Fischer, W. Australia, p. 306 fig., steenstrupii Dies., Queensland, p. 307 fig., klunzingeri Selenka & de Man, Queensland, p. 308 Edmonds, S. J.

Cleosiphon Grube, defined p. 309, aspergillum (Quatref.), Queensland, p. 309 figs., **Edmonds**, S. J.

Dendrostomum Grube, defined p. 296, dehamatum Kesteven, N.S.W., p. 296 fig., signifer Selenka & de Man, Queensland, p. 297 fig., cymodoceae sp. nov., S. Australia, p. 299 figs., Edmonds, S. J.

Golfingia Lankester, defined p. 302, margaritacea (Sars) adelaidensis subsp. nov., S. Australia, p. 302 fig., vulgaris (Blainv.) queenslandensis subsp. nov., Queensland, p. 303 fig., Edmonds, S. J.

Ikedella misakiensis (Ikeda), some redescr., India, p. 201 fig., Gideon, P. W. et al.

Phascolosoma Leuck., defined, systematic note, p. 281, rottnesti sp. nov., W. Australia, p. 282 figs., tasmaniense (Fischer), Tasmania, Victoria, S. Australia, p. 285 figs., noduliferum Stimps., N.S.W., Victoria, Tasmania, p. 286 figs., nigrescens Keferst., Queensland, W. Aust., p. 289 fig., lurco (Selenka & de Man), Queensland, p. 290 fig., pacificum Keferst., Queensland, p. 291 fig., dunwichi sp. nov., Queensland, p. 292 figs., heronis sp. nov., Queensland, p. 293 fig., Edmonds, S. J.

Thalassema aragaoi, p. 130, espirito-santensis, lejeunei, p. 131, **spp. nov.**, Brazil, Mello-Leitas, A.

### CONODONTA

†Acodina curvata Stauffer p. 98 fig., sp. innom. p. 99 fig., Devonian, Germany, **Ziegler**, W.

†Ancyrodella curvata (Brans. & Mehl) p. 118 figs., nodosa Ulr. & Bassl. p. 119 figs., Upper Devonian, Germany, Bischoff, G.

†Ancyrognathus euglypheus Stauffer p. 120 figs., inequalis (Holmes) p. 121 figs., Upper Devonian, Germany, **Bischoff**, G.—†A. inequalis (Holmes), Upper Devonian, Germany, p. 144 fig., **Bischoff**, G. & **Ziegler**, W.

†Angulodus bidentatus Sannemann, Upper Devonian, Germany, p. 121 fig., Bischoff, G.

†Apatognathus inversa Sannemann p. 121 figs., lipperti sp. nov. p. 121 figs., Upper Devonian, Germany, Bischoff, G.—†A. lipperti Bischoff p. 145 figs., varians Brans. & Mehl., p. 145 fig., Upper Devonian, Germany, Bischoff, G. & Ziegler, W.

†Bryantodus dignatus Stauffer p. 122 figs., multidens Ulr. & Bassl. p. 122 figs., nitidus Ulr. & Bassl. p. 123 fig., Upper Devonian, Germany, Bischoff, G.—†B. sp. nov. innom., Upper Devonian, Germany, p. 145 figs., Bischoff, G. & Ziegler, W.

†(Deflectolepis) subgen. nov., Palmatolepis, type: P. deflectens sp. nov. p. 16, Müller, K. J.

†*Dinodus leptus* Cooper, Upper Devonian, p. 146 fig., **Bischoff**, G. & **Ziegler**, W.

†Distacodus sp. nov. innom., Devonian, Germany, p. 99, fig., Ziegler, W.

†Drepanodus herrmanni sp. nov., Lower Devonian, Germany, p. 99 fig., Ziegler, W.

†Falcodus variabilis Sannemann, Upper Devonian, Germany, p. 123 figs., **Bischoff**, G.—†F. tortus Huddle p. 146 fig., sp. Huddle p. 146 fig., Upper Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.

†Gnathodus bilineatus (Roundy), Upper Devonian, Germany, p. 146 figs., **Bischoff,** G. & **Ziegler,** W.

†Hibbardella plana Thomas, Upper Devonian, Germany, p. 123 fig., **Bischoff**, G.

†Hindeodella unca sp. nov., Upper Devonian, Germany, p. 124 figs., Bischoff, G.—†H. brevis Brans. & Mehl, Upper Devonian, Germany, p. 147 figs., Bischoff, G. & Ziegler, W.—†H. cf. similis Ulrich & Bassler, Devonian, Germany, p. 100 fig., Ziegler, W.

† Icriodus cornutus Sannemann, Upper Devonian, Germany, p. 125 fig., Bischoff, G.—†I. curvatus Brans. & Mehl p. 100 fig., cymbiformis Brans. & Mehl p. 100 fig., l. latericrescens p. 100 figs., latericrescens bilatericrescens subsp. nov. p. 101 figs., latericrescens beckmanni subsp. nov. p. 102 figs., nodosus Huddle p. 102 figs., symmetricus Brans. & Mehl p. 102 fig., Devonian, Germany, Ziegler, W.

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†Ligonodina delicata Brans. & Mehl p. 126 fig., falciformis Ulr. & Bassl. p. 126 fig., franconia Sannemann p. 126 figs., Upper Devonian, Germany, Bischoff, G.—†L. monodentata sp. nov. p. 148 fig., typa (Gunnell) p. 149 fig., Upper Devonian, Germany, Bischoff, G. & Ziegler, W.

†Lonchodina? projecta Brans. & Mehl., Upper Devonian, Germany, p. 126 fig., **Bischoff**, G.—†L. brevipennata (Brans. & Mehl) p. 150 figs., curvata (Brans. & Mehl) p. 150 fig., curvidens Brans. p. 150 fig., cf. tenuis Huddle p. 150 fig., Upper Devonan, Germany, **Bischoff**, G. & **Ziegler**, W.

†(Manticolepis) subgen. nov., Palmatolepis, type: P. subrecta Miller & Youngq. p. 16, Müller, K. J.

†Nothognathella brevidonta Youngquist p. 127 fig., sublaevis Sannemann p. 127 figs., Upper Devonian, Germany, **Bischoff**, G.—†N. iowaensis Youngq., Upper Devonian, Germany, p. 151 fig., **Bischoff**, G. & **Ziegler**, W.

†Ozarkodina arcuata (Brans. & Mehl) p. 152 fig., elongata Brans. p. 152 figs., rhenana sp. nov. p. 153 fig., sp. innom. p. 153 figs., Upper Devonian, Germany, Bischoff, G. & Ziegler, W.—†O. denckmanni sp. nov. p. 163 figs., Devonian, Germany, Ziegler, W.

†*Palmatodella delicatula* Ulr. & Bassl., Upper Devonian, Germany, p. 128 figs., **Bischoff,** G.

†Palmatolepis Ulr. & Bassl., European spp. reviewed p. 14, (M.) transitans p. 18 figs., (M.) cruciformis p. 19 figs., (M.) martenbergensis p. 19 figs., (M.) charlottae p. 20 figs., (M.) wildungensis p. 22 figs., (M.) prominens p. 22 figs., (M.) nasuta p. 23 figs., (P.) linguiformis p. 24 figs., (P.) gonioclymeniae p. 26 figs., schindewolfii p. 27 figs., (P.) ampla p. 28 figs., (P.) maxima p. 29 figs., (P.) inflexa p. 30 figs., (D.) coronata p. 31 figs., (D.) deflectens p. 32 figs., spp. nov., Devonian, Germany, Müller, K. J.—†P. crepida Sannemann p. 128 figs.,

flabelliformis Stauffer p. 128 figs., glabra Ulrich & Bassl. p. 128 figs., minuta Brans. & Mehl. p. 129 figs., perlobata Ulr. & Bassl. p. 129 figs., quadrantinodosalobata Sannemann p. 129 figs., regularis Cooper, p. 129 figs., regularis Cooper, p. 129 figs., regularis Cooper, p. 129 figs., subgracilis sp. nov. p. 130 figs., subperlobata Brans. & Mehl. p. 131 figs., termini Sannemann p. 131 fig., termini Sannemann p. 131 fig., triangularis Sann. p. 131 figs., sp. innom. p. 132 figs., Upper Devonian, Germany, Bischoff, G.—†P. gracilis Brans. & Mehl. p. 154 figs., quadrantinodosa subsp. nov. innom. p. 155 fig., Upper Devonian, Germany, Bischoff, G. & Ziegler, W.

†Polygnathus cf. brevilamina p. 132 fig., decorosa Stauf. p. 132 figs., glabra Ulr. & Bassl. p. 133 figs., longipostica Brans. & Mehl p. 133 fig., normalis Miller and Youngq. p. 133 fig., sp. innom. p. 133 figs., Upper Devonian, Germany, Bischoff, G.—†P. communis Brans. & Mehl. p. 156 figs., inornata Brans. p. 157 figs., nodomarginata Brans. p. 157 figs., rimulata Ulr. & Bassl. p. 158 fig., cf. linguiformis Hinde p. 158 fig., Upper Devonian, Germany, Bischoff, G. & Ziegler, W.—†P. linguiformis Hinde p. 103 figs., webbi Stauffer p. 104 figs., sp. innom. p. 104 fig., Devonian, Germany, Ziegler, W.—Ziegler, W.—Ziegler, W.—Ziegler, W.—

†Prioniodella cunea Huddle p. 159 fig., informata Ulr. & Bassl. p. 159 fig., multidens Ulr. & Bassl. p. 159 fig., Upper Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.

†Prioniodina alata (Hinde) p. 134 figs., armata (Hinde) p. 155 figs., smithi (Stauf.) p. 135 figs., Upper Devonian, Germany, Bischoff, G.—†P. barbata (Brans. & Mehl) p. 160 figs., subequalis (Ulr. & Bassl.) p. 161 fig., sp. innom. p. 161 fig., Upper Devonian, Germany, Bischoff, G. & Ziegler, W.—†P. tropa (Stauffer), Devonian, Germany, p. 104 figs., Ziegler, W.

†Pseudopolygnathus fusiformis Brans. & Mehl p. 162 figs., kayseri sp. nov. p. 162 figs., marburgensis sp. nov. p. 162 figs., micropunctata sp. nov. p. 163 figs., sp. nov. innom. p. 164 figs., orthoconstricta (Thomas) p. 164 figs., striata Mehl. & Thomas p. 164 figs., Upper Devonian, Germany, Bischoff, G. & Ziegler, W.

†Roundya brevipennata Sannemann p. 136 figs., franca Sannemann p. 136 figs., separata (Brans. & Mehl) p. 136 figs., Upper Devonian, Germany, Bischoff, G.—†R. tumida (Brans. & Mehl), Upper Devonian, Germany, p. 165 fig., Bischoff, G. & Ziegler, W.

†Scutula bipennata Sannemann, Upper Devonian, Germany, p. 136 fig., **Bischoff,** G.

†Siphonodella duplicata (Brans. & Mehl) p. 165 figs., crenulata (Cooper) p. 165 figs., quadruplicata Brans. & Mehl p. 165 figs., Upper Devonian, Germany, **Bischoff**, G. & **Ziegler**, W.

†Solenodella costata (Brans.) p. 166 figs., dicrocheila (Brans.) p. 166 fig., Upper Devonian, Germany, **Bischoff** G. & **Ziegler**, W.

Spathognathodus costatus (Brans.) p. 166 fig., crassidentatus (Brans. & Mehl) p. 166 figs., inornatus (Brans. & Mehl) p. 166 figs., jugosus (Brans. & Mehl) p. 167 figs., spinulicostatus (Brans.) p. 167 fig., stabilis (Brans. & Mehl). p. 167 fig., strigosus (Brans. & Mehl) p. 167 fig., tridentatus (Brans.) p. 167 fig. sp. innom. p. 167 fig., Upper Devonian, Bischoff, C. & Ziegler, W.—†S. steinhornensis sp. nov., Devonian, Germany, p. 104 figs., Ziegler, W.

### **SCOLECODONTA**

†Anisocerasites gen. nov., defined p. 367, type: Eunicites tanaodus Eller pp. 367, 368 figs., to incl. also aspidodus p. 367 figs., aciedentatus p. 367 figs., acanthophorus p. 368 figs., amplimarginatus p. 368 fig., acicularis p. 369 figs., spp. nov., validus (Eller) p. 369 figs., Devonian, Michigan, Eller, E. R.

†Arabellites arrectus sp. nov., Devonian, Michigan, p. 347 figs., Eller, E. R.

†Diopatraites asper p. 369 fig., abruptus p. 370 fig., arctostriatus p. 370 figs., alveatus p. 370 figs., aequilateralis p. 370 fig., aversus p. 371 figs., accommodus p. 371 fig., spp. nov., conformis Eller p. 371 fig., Devonian, Mighigan, Eller, E. R.

†Eunicites apicalis p. 356 fig., acidus p. 357 fig., alveolaris p. 357 fig., asaphus p. 357 figs., altidorsalis p. 357 fig., acutirustris p. 358 fig., apidodus p. 358 figs., admirandus p. 358 fig., anquisitus p. 359 figs., acinaciformis p. 359 figs., articulosus p. 359 figs., apiculatus p. 359 figs., acutulus p. 360 fig., ambocoelius p. 360 fig., axinus p. 360 fig., alienatus p. 361 figs., altinsculus p. 361 figs., acidaspis p. 362 figs., absonus p. 362 figs., asponus p. 360 figs., angulatus Eller p. 361 figs., Devonian, Michigan, Eller, E. R.

† Ildraites appressus sp. nov., Devonian, Michigan, p. 349 fig., Eller, E. R.

†Leodicites angiformis p. 349 figs., altilis p. 350 figs., abbreviatus p. 350 figs., amplicameratus p. 350 figs., ambiguus p. 351 figs., angusticameratus p. 351 fig., spp. nov., Devonian, Michigan, Eller, E. R.

†Nereidavus angulatus (Eller) p. 348 figs., admixtus sp. nov. p. 348 fig., Devonian, Michigan, Eller, E. R.

† Oenonites aequibrachiatus p. 353 fig., abscicus p. 353 figs., spp. nov., orthodontus Eller p. 354 fig., Devonian, Michigan, Eller, E. R.

†Paleoenonites auctificus p. 354 fig., angiportus p. 354 figs., armigerus p. 355 figs., ardaculus p. 355 figs.. arcuatellus p. 356 figs., spp. nov., alpenaensis (Eller) p. 355 fig., Devonian, Michigan, Eller, E. R.

†Staurocephalites aequilateralis p. 351 figs., articulatus p. 352 figs., aequemarginalis p. 352 figs., alterostris p. 353 figs., spp. nov., Devonian, Michigan, Eller, E. R.

†Stauronereisites gen. nov., defined p. 362 type: auriculatus p. 363 figs., to incl. also adversarius p. 363 figs., abditivus p. 363 fig., aequalis p. 364 fig., spp. nov., Devonian, Michigan, Eller, E. R.

†Ungulites acutidactylus p. 364 figs., arquatus p. 364 figs., agglomeratus p. 364 figs., astrictus p. 365 fig., acutus p. 365 fig., spp. nov., sp. indet. p. 365 fig., sp. indet. p. 366 fig., alcicornis sp. nov., p. 366 figs., attenuatus sp. nov. p. 366 figs., Devonian, Michigan, Eller, E. R.

# **PROBLEMATICA**

†Biformites gen. nov., type: insolitus sp nov., tracks in sandstone, Germany, p. 40 figs., Linck, O.

†Cylindricum gen. nov., type gregarium sp. nov., tracks in sandstone, Germany, p. 19 figs., Linck, O.

†Ichnyspica gen. nov., type: pectinata sp. nov., tracks in sandstone, Germany, p. 32 figs., Linck, O.

†Isopodichnus sp. innom. tracks in sandstone, Germany, p. 30 fig., Linck, O.

†Limuludichnus gen. nov., type variabilis sp. nov., p. 46 figs., gracilis sp. nov., p. 57 figs., tracks in sandstone, Germany, Linck, O.



